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Serials

REPORT

OF THE

BARNES HOSPITAL

SAINT LOUIS

FOR

1926-1927

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FORM OF BEQUEST

I give and bequeath unto the Trustees of Barnes Hospital (now located at Kingshighway and Euclid Avenue, St. Louis, Missouri) and to their successors in trust, the sum of .....Dollars as a permanent endowment fund,* the income of which shall be used by said Trustees for the support and maintenance of said Hospital.

(see note below)

NOTE.—If real estate is given, use the words, "I give, devise and bequeath," etc. If it is desired to make a gift for a special purpose, describe the purpose fully in place of the words, "as a permanent endowment," etc.

*See pp. 15 and 16.

REPORT

OF THE

BARNES HOSPITAL
SAINT LOUIS

FOR

1926-1927

SAINT LOUIS
CON. P. CURRAN PRINTING CO.

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Report of the Trustees

The following is a brief chronicle of some of the more important events during the years 1926 and 1927:

1926

January 7: The Trustees approved of the resolution submitted by the Hospital Committee that they enter into negotiation with the county authorities for the care of indigent county patients, it being understood that such safeguards be made as will give to the hospital the power of selection and power of discharge of patients received from the county. These negotiations were successfully completed at a later date.

March 4: The Trustees approved an intensive campaign recommended by the Administrative Board of the School of Nursing to recruit student nurses for the School of Nursing.

May 12: The exercises in the Chapel to celebrate Hospital Day were under the auspices of the Women's Missionary Society of St. John's Church.

May 13: The gift of $1,000.00 from Mr. Walter B. Scholz was reported.

June 28: Arrangements were made at a meeting attended by representatives of St. Louis Children's Hospital, St. Louis Maternity Hospital, Washington University and Barnes Hospital for a ten-story addition to the Nurses' Home, to cost in the neighborhood of $500,000.00.*

September 15: The Trustees approved the leasing of the Medical Dormitory by the School of Nursing from September 15, 1926, to September 15, 1927, to house the overflow from the present Nurses' Home so far as possible.

1927

May 5: The Trustees, acting under legal advice, voted that the Hospital should not come under the Missouri Workmen's Compensation Law.

July: The Eliza McMillan bequest of $20,000.00 was received.

August 15: The Maternity Service of Barnes Hospital was discontinued coincident with the opening of the St. Louis Ma-

*The text of the contract in regard the Nurses' Home will be found on page 107 of this report.

ternity Hospital, though the Obstetrical Staff is to be continued as the Gynecological Staff for Barnes Hospital. This work has been an important part of the service rendered by Barnes Hospital to the community, but the Trustees are very glad to relinquish it to the Maternity Hospital, their neighbor, in the interest of the whole group and the community.

At the meeting of the Trustees on November 23rd, the death of Colonel Paul Brown was reported and minutes were passed which appear on page 5 of this report. It was stated that Colonel Brown had made a bequest of $100,000.00 to Barnes Hospital.

November 26: The new addition to the Nurses' Home was opened. Because of the excellent course of training, both theoretical and practical, because of the recommendations of former graduates, because of the intensive campaign and because of the new Nurses' Home, and doubtless for other reasons, the School of Nursing received the largest class of pupils (66) on September 15 that had ever been enrolled. This result is exceedingly gratifying to the Trustees.

The Trustees are very grateful to the Community Fund for its donations to Barnes Hospital of $70,341.85 in 1926 and $55,167.72 in 1927. Without these allowances Barnes Hospital would have found it more difficult to meet its great responsibility of service, any restriction of which would be a genuine loss to this community.

The Trustees wish to express their appreciation of the service rendered the Hospital by the staff, the nurses and the employees, and are confident that the Hospital will continue to improve its service both in quantity and quality.

FRANK C. RAND, Chairman.

In Memoriam

Minutes on the Death of

Colonel Paul Brown

It is with profound sorrow that the Trustees of Barnes Hospital record the death of Colonel Paul Brown, a former Trustee of this institution, from December 12, 1916, to January 1, 1925. His active and intelligent services as such Trustee and his unfailing interest in Barnes Hospital endear his memory to every friend of the Hospital. He was a powerful force in this community and will long be remembered for his commanding influence in the affairs of this city and state.

These expressions of respect and affectionate esteem would be incomplete without reference to Colonel Brown's generous contribution to our permanent endowment fund, which is accepted by Barnes Hospital with grateful appreciation.

The Secretary of the Board of Trustees is directed to send a copy of the above resolution to Mrs. Paul Brown, and to publish it in the next copy of the Annual Report of Barnes Hospital.

Passed at the meeting of the Trustees of Barnes Hospital, November 23, 1927.

Financial Report

COMPARATIVE BALANCE SHEET AS AT DECEMBER 31, 1927 and 1926

ASSETS	As of Dec. 31, 1927	As of Dec. 31, 1926
Current Assets:		
Cash on hand and in Banks	$ 23.772.55	$ 46,648.93
Accounts Receivable	7,885.94	5,849.25
Inventories of Drugs & Supplies	34,635.26	27,735.08
Total Current Assets	$ 66,293.75	$ 80,233.26
Investments:		
Real Estate	$ 239,950.00	$ 322,950.00
Stocks and Bonds	878,694.09	781,201.64
Real Estate Notes	29,000.00	1,550.00
Cash in hands of Broker for Investment	32,466.34	6,828.65
Total Investments	$1,180,110.43	$1,112,530.29
Hospital Property & Equipment:		
Land—Building Site	$ 155,559.68	$ 155,559.68
Stocks and Bonds representing land sold	12,440.32	12,440.32
Buildings—Hospital and other Buildings	956,480.79	956,480.79
Power Plant Pipe connections	17,362.80	17,362.80
Furniture & Fixtures	57,030.61	57,030.61
Total Hospital Property and Equipment (per contra)	$1,198,874.20	$1,198,874.20
Deficit, General Fund:		
Balance at beginning of Year	$ 54,775.74	$ 36,859.64
Deficit for the Year	18,736.49	17,916.10
Balance at End of Year	$ 73,512.23	$ 54,775.74
Total	$2,518,790.61	$2,446,413.49
LIABILITIES		
Current Liabilities:		
Accounts Payable, Wash. Univ.	$ 40,787.00	$ 26,826.05
Accounts Payable, others	27,383.39	25,274.47
Due Liability Insurance Fund	966.43	741.08
Unexpended Balances in Special Funds	1,693.23	1,037.31
Total Current Liabilities	$ 70,830.05	$ 53,878.91
Endowment Fund Reserves:		
Productive Endowments:		
Barnes	$ 866,205.24	$ 866,205.24
Eliza Brookings Memorial Fund	100,000.00	100,000.00
Edgar E. Rand Fund	25,000,00	25,000,00
McMillan	20,000,00	
Milton J. Moore	13,200.00	13,200.00
Dr. E. J. Kuhn	10,000.00	10,000.00
Sundries	6,000.00	6,000.00
Special Endowments	2,600.00	2,427.65
Total Endowment Fund Reserve	$1,043,005.24	$1,022,832.89

Hospital Property and Equipment Reserves:		
Barnes Endowment of Hospital Property and Equipment	$1,181,511.40	$1,181,511.40
Hospital Endowment of Power Plant Pipe connections	17,362.80	17,362.80
Total Hospital Property and Equipment Reserves (per contra)	$1,198,874.20	$1,198,874.20
Reserves:		
Renewals of Furniture, Fixtures and Equipment	$ 53,242.60	$ 52,162.60
Depreciation of Hospital Property	88,717.85	74,370.65
Liability Insurance Contingency	16,785.63	13,528.87
Profit or Losses on Sales of Stocks	22,110.38	5,540.71
Profits or Losses on Sales of Land	25,224.66	25,224.66
Total Reserves	$ 206,081.12	$ 170,827.49
Total	$2,518,790,61	$2,446,413.49

COMPARATIVE INCOME AND EXPENDITURE ACCOUNT

FOR THE YEARS ENDED DECEMBER 31, 1927 and 1926

	Year ended Dec. 31, 1927	Year ended Dec. 31, 1926
Total Patient Days	83,552	86,749
Income:		
Patients Room and Board	$ 272,468.37	$ 286,302.29
Operating Room	34,491.50	29,101.76
Special Nurses Board	16,302.25	15,585.75
Stewards Department	60,381.19	58,703.30
Drugs	2,041.20	2,041.20
Laundry	20,731.38	19,386.32
Ambulance Service	216.00	257.00
Lodging	2,927.09	1,512.00
Anaesthesia Course	500.00	300.00
Bank Interest	271.19	397.54
Total Income	$ 410,330.17	$ 413,587.16
Expenditures:		
Administration Expense:		
Salaries	$ 27,671.40	$ 26,716.20
Telephones	8,266.92	8,720.54
Office Supplies & Sundry Expenses	6,956.35	6,479.76
Total Administration Expense	$ 42,894.67	$ 41,916.50
Professional Care of Patients:		
Medical & Surgical Supplies	$ 34,557.73	$ 33,730.91
Drugs	14,087.83	14,964.99
Nursing	181,363.39	175,055.55
Total Professional Care of Patients	$ 230,008.95	$ 223,751.45
Departmental Expense:		
Housekeeping	44,321.13	$ 41,327.72
Linen and Bedding	7,533.38	10,008.24
Kitchen	14,569.44	14,227.94
Laundry	22,071.36	20,152.53
Total Departmental Expense	$ 88,495.31	$ 85,716.43
Commissaries	$ 104,598.97	$ 110,316.62

General House & Property Expense:		
Heat, Light & Power	$ 42,060.57	$ 46,072.84
Gas	2,893.86	2,926.22
Grounds and Buildings Maintenance and Expense	29,749.41	26,022.70
Repairs	743.61	796.48
Water	856.93	626.87
Taxes	1,759.91	1,834.94
Insurance	3,166.19	4,416.08
Total General House & Prop. Exp	$ 81,230.48	$ 82,696.13
Depreciation and Replacements	$ 14,347.20	$ 14,347.20
Depreciation of Laundry	$ 1,080.00	$ 1,080.00
Total Expenditures	$ 562,655.58	$ 559,824.33
Net Deficit	$ 152,325.41	$ 146,237.17

STATEMENT OF ALL INCOME AND EXPENDITURES

FOR THE YEARS ENDED DECEMBER 31, 1927 and 1926

	Year Ended Dec. 31, 1927	Year Ended Dec. 31, 1926
General Fund:		
Deficit from Operations	$ 152,325.41	$ 146,237.17
Non-Operating Income:		
From Investments:		
Income from Real Estate, Net	15,781.53	8,968.99
Dividends from Stocks	38,749.50	40,857.25
Interest on Bonds	10,997.68	8,197.99
Interest on Real Estate Notes	43.54	
Interest—Sundries	4,777.92	1,406.40
Total	$ 70,350.17	$ 59,430.63
Less—General Taxes, Insurance, etc.	417.73	444.15
Net Income from Investments	$ 69,932.44	$ 58,986.48
Less—Income Applicable to Special Funds:		
James W. Lee Memorial	$ 99.60	78.23
St. Louis Hospital Social Service	60.00	60.00
Liability Insurance Fund	966.43	741.08
Total Applicable to Spec. Funds	$ 1,126.03	$ 879.31
Available for General Fund	$ 68,806.41	$ 58,107.17
Donations:		
Kennard Estate	$ 500.00	$ 500.00
Hospital Saturday & Sunday Assn.	8,972.04	8,575.50
Miscellaneous	142.75	136.00
Total Donations	$ 9,614.79	$ 9,211.50
Total General Non-Operating Income	$ 78,421.20	$ 67,318.67
Excess of Expenditures over Income for the Year	$ 73,904.21	$ 78,918.50
Contributions from Community Fund	55,167.72	61,002.40
Net Deficit for the Year to General Fund	$ 18,736.49	$ 17,916.10
General Fund at December 31	54,775.74	36,859.64
	$ 73,512.23	$ 54,775.74

FINANCIAL REPORT

REAL ESTATE OWNED

(Ledger Value)

City Block	Location	Book Value Dec. 31, 1927	Book Value Dec. 31, 1926
56	313 South 2nd St.	$ 3,500.00	$ 3,500.00
64	419–21 North 2nd	15,000.00	15,000.00
65	527 North 2nd	10,000.00	10,000.00
106	Broadway and Spruce	185,000,00	185,000.00
312	Broadway and Wright	24,000.00	24,000.00
362	1123–29 Madison	2,450.00	2,450.00
4501	Newstead and Olive		83,000.00
		$ 239,950.00	$ 322,950.00

STOCKS AND BONDS

(Ledger Value)

STOCKS	Book Value Dec. 31, 1927	Book Value Dec. 31, 1926
American Sugar Refining Company, Preferred	$ 4,956.00	$ 4,956.00
Atchison, Topeka and Santa Fe Railroad, Preferred	10,000.00	10,000.00
Baltimore and Ohio Railroad, Preferred	17,307.50	17,307.50
Boatmen's Bank		45,765.00
First National Bank in St. Louis	100,502.40	100,502.40
International Shoe Company, Preferred	104,778.50	53,400.00
Mercantile Trust Company	143,090.00	143,090.00
Mississippi Valley Trust Company	118,080.00	118,080.00
Pet Milk Company, Preferred	10,280.00	10,280.00
Rice-Stix Dry Goods Company, Preferred	11,200.00	11,200.00
Southwestern Bell Telephone Company, Preferred	42,140.50	42,140.50
Title Guaranty Trust Company	11,300.00	11,300.00
United States Steel, Preferred	11,950.00	11,950.00
Union Pacific, Preferred	8,437.50	8,437.50
Union Electric Light & Power Company, Preferred	25,000.00	25,000.00
Total	$ 619,022.40	$ 613,408.90

BONDS		
Amarillo Hotel	5,073.44	
Buckingham Realty Company	4,987.50	4,987.50
Corno Mills	4,975.00	4,975.00
County of Coahoma, Mississippi	15,600.00	15,600.00
County of Harrison, Texas	15,000.00	15,000.00
County of Jackson, Arkansas	4,900.00	4,900.00
County of Scott, Missouri	5,181.25	5,181.25
Dallas Telephone Company	925.00	925.00
Franklin Motor Car Company Building (Interim Certificate)	5,000.00	
Houston Belt and Terminal Railroad Company	9,000.00	9,000.00
Houston Terminal Warehouse and Cold Storage Company	14,962.50	
Iowa State College Memorial Union	10,000.00	
Jewelers Building of Chicago	9,975.00	9,975.00
Joyner Realty Company	4,017.40	

BARNES HOSPITAL

STOCKS AND BONDS

(Ledger Value)

BONDS	Book Value Dec. 31, 1927	Book Value Dec. 31, 1926
Kentucky and Indiana Terminal Railway Company	3,601.21	3,601.21
Louisiana Pulp and Paper Company	4,950.00	4,950.00
Mortgage Guaranty Company	37,994.36	
Mississippi County Missouri Service District	10,325.00	10,325.00
Monogram Realty Company	9,975.00	9,975.00
Pacific Power and Light Company	4,600.00	4.600.00
Prudence Company	9,975.00	
Road Improvement District No. 15—Jefferson County, Ark.		4,868.75
State Randolph Building Corporation	9,725.00	
St. Charles Hotel	9,975.00	9,975.00
Telephone Garage Building	9,975.00	9,975.00
Texarkana and Fort Smith Railroad	10,050.00	10,050.00
U. S. Liberty Loan—4th—1938	34,240.29	34,240.29
U. S. Liberty Loan—3rd—1928	7,129.06	7,129.06
Total Bonds	$ 272,112.01	$ 180,233.06
Real Estate Notes:		
Samuel S. and Rose Sterneck	$ 14,000.00	
William M. and Margaret Stites and Ralph and Margaret Townsend	15,000.00	
Total Investments	$ 920,134.41	$ 793,641.96

Endowments

A contribution to the Endowment Fund entitles the donor to the following privileges, according to the amount of the gift:

$1,000.00 entitles the donor to nominate one patient per year to a bed in the general wards. The contribution will be acknowledged on a tablet in the main corridor of the Hospital.

$5,000.00 entitles the donor to nominate three patients per year to a bed in the general wards. The contribution will be acknowledged on a tablet in the main corridor of the Hospital.

$10,000.00 entitles the donor to name a bed in the general wards which shall remain as a perpetual memorial with memorial plate on bed and privilege of nominating a patient to this bed during life of donor.

$15,000.00 entitles the donor to name a bed in the general wards which shall remain as a perpetual memorial with memorial plate on bed and privilege of nominating a patient to this bed during the life of the donor and one successor.

$15,000.00 entitles the donor to name a room off the wards which shall remain as a perpetual memorial with bronze memorial plate on door without privilege of occupancy.

$20,000.00 entitles the donor to name a room off the wards which shall remain as a perpetual memorial with bronze memorial plate on door and privilege of nominating a patient to this room or to a bed in the general wards during the life of the donor.

$25,000.00 entitles the donor to name a ward of two to four beds, which shall remain as a perpetual memorial with bronze memorial plate on door and privilege of nominating a patient to a bed in the wards or to a room off the wards during the life of the donor and one successor.

$30,000.00 entitles the donor to name a room in the Private Pavilion which shall remain as a perpetual memorial with bronze memorial plate on door and privilege of nominating a patient to this room or to a bed in the general wards during the life of the donor and one successor.

$100,000.00 entitles the donor to name a ward which shall remain as a perpetual memorial with bronze memorial plate at ward entrance with privilege of nominating a patient for occupancy or to a bed in the Private Pavilion during life of donor and one successor.

Every endowment will be acknowledged in the annual report and on a tablet in the main corridor of the Hospital. The occupancy of all the beds shall be subject to the approval of the Trustees and Rules of the Hospital. Special arrangements will be made for corporations and societies.

Report of the Superintendent

Among the more important events for the two years 1926 and 1927 are the following:

1926

January 4: The position of head orderly was created and the work of the orderlies is now being supervised and personal instruction given them.

The School of Nursing organized classes for floor duty nurses instruction in the Barnes Hospital routine.

February 1: A list of abbreviations for use in the routine work in the Hospital was approved by the Hospital Committee. With the exception of those used in prescription writing, no other abbreviations are to be employed.

May 12: Mrs. Mae Southwick, who had been the Hospital housekeeper for eight years, resigned to be married. Mrs. Edith Lindstrom now holds this position.

June 1: A contract was completed between St. Louis County and Barnes Hospital by which indigent county patients referred to the Hospital by the County Health Officer are to be paid for by the county at the regular ward rates.

The Barnes Hospital Society has been holding its regular meetings in the first floor nurses dining room. One of its accomplishments is the creating and filling the position of executive assistant. Through the efforts of the society the staff subscribed a portion of the salary of this position for the first year. Miss Laura Hornback, the Hospital admitting officer, was appointed to this position November 15, 1926, and Miss Cornelia Sasse, head nurse of Ward 2219, was appointed to the position left vacant by Miss Hornback.

An arrangement was made with the St. Louis Children's Hospital so that the Barnes Hospital Intern in Oto-Laryngology will exchange positions every six months with the Intern in Oto-Laryngology in the Children's Hospital.

In the spring of 1926 eleven concrete slabs were laid between the curb and the sidewalk in front of the hospital and two walks laid leading directly from the front walk to the entrance of the Hospital. This arrangement enables people to alight from autos

at any place in front of the Hospital and have a concrete walk directly to the front door.

In the summer of 1926, new slate sinks were installed in the duty rooms and kitchens on each floor of the Private Pavilion. A new gas stove was also installed in each kitchen of the Pavilion to facilitate and improve the preparation and service of special food to our patients.

1927

March 1: The Hospital became a member of the Bureau of Standards & Supplies of New York City. This membership has brought valuable aid in purchasing hospital supplies, and has effected a substantial financial saving.

May 10: The Hospital offered its facilities to the sufferers of the Mississippi flood and the Poplar Bluff, Missouri, tornado.

July 15: The use of distilled water for scrubbing-up was discontinued in the Operating Room and the water for this purpose is being obtained from the water-softening plant, which will result in a considerable annual saving to the Hospital and with no impairment of the technique.

August 15: The new St. Louis Maternity Hospital was opened and the admission of Maternity patients to Barnes Hospital was discontinued. The members of the Obstetrical service will continue to have the privilege of caring for gynecological patients in Barnes Hospital.

The capacity of the Hospital is now 300 beds. The increase from 282 was made by converting the nurseries, delivery rooms, waiting and examining rooms of the discontinued Obstetrical service into accommodations for patients.

September 15: The new ten-story addition to the Nurses residence was opened and the nurses from the Medical Dormitory and the Service Building were moved into the new building. Half of the second floor of the Service Building was remodeled as an additional dining room to take care of the increase in the enrollment of the School of Nursing and the nursing staff of the St. Louis Maternity Hospital. The other half of the second floor and the third floor of the Service Building has been partly occupied by employees of Barnes and the St. Louis Maternity Hospitals.

September 29: St. Louis was visited by a tornado shortly after noon, taking a large number of lives and injuring hundreds of people. The Hospital, while on the very edge of the tornado's

path, fortunately suffered only minor damages and at once was able to put into operation its facilities for caring for the injured. By night 52 injured had been admitted to the Hospital and numerous others whose wounds were not severe had received care. Much credit is due the entire personnel of the Hospital for their untiring work for many hours following the disaster.

As a part of the Community Fund's "Come and See" program the Hospital had as its guests at luncheon, though the expenses were defrayed by the club-members, the Rotary Club of St. Louis on May 5, 1927, the South Side Kiwanis Club on May 6, 1927, and the South Side Lions' Club on November 17, 1927. Following lunch the clubs held their regular meetings and after brief talks by a member of the Board of Trustees and the Superintendent of the Hospital they were shown through the Hospital. The number of guests at these luncheons totaled 270.

In the fall of 1927 a rebuilt tumbler dryer and two new presses and a rebuilt flat work ironer were installed in the laundry to handle the increased work. To make these installations it was necessary to remodel part of the laundry.

More storage space for histories became necessary in the record room in 1927 and new shelves were installed on two walls of one of the rooms. The shelves on these walls extend to the ceiling.

Much needed slate sinks were installed in all the ward utility rooms during 1927.

During the winter of 1926-1927 all the ward beds and bedside tables were painted and fifty sets of five-inch castors put on the ward beds. Nearly all the beds are now on these castors and it is hoped to equip the remaining beds in the near future.

During the year 1927 a signal system was installed on all porches so that patients enjoying the benefits of the outdoors could signal for a nurse in the ward.

In the summer season of 1926 and 1927 the rooms on two floors of the Private Pavilion, several semi-private rooms and one ward were refinished.

During 1926 and 1927 new linoleum flooring was placed in all the semi-private rooms.

During the past two years new window shades have been installed in all the wards and most of the semi-private and private rooms. As fast as the remaining old shades wear out they are

being replaced with the new ones and shortly all windows in the Hospital will be provided with shades of uniform color.

During the past two years, when the weather permitted, two men have been employed to tuck point the buildings at needed places to prevent rain driving through the walls and injuring the plaster.

All windows and door-frames are being caulked, which will prevent air from leaking in around windows and doors and will avoid drafts, conserve heat and make it unnecessary to wash the walls so frequently. A considerable portion of this work has been completed.

In our report for the years 1924 and 1925 we stated that the actual receipts from ward patients subtracted from the cost of their care in the Hospital for the year 1925 amounted to $209,650.24. This amount divided by the per capita cost gives as the number of free days 37,040, or an average of 102 free patients per day.

For the year 1926 the cost of free days arrived at by the same method was $208,061.87. The number of free days on this basis was 37,624 days, an average of 103 free patients per day.

For 1927 the loss obtained in the same way was $217,799.95, which would pay for 37,944 free days, or an average number of free patients each day of 104.

During the past year the Hospital has received more in endowments than in any other year, but still the chief need of Barnes Hospital is for unrestricted endowments. The second prime need of the Hospital has been, and still is, more pupil nurses. It is expected that the fine addition to the Nurses' Home will greatly help to relieve this need. However, the time when the Hospital will be able to have all its vacancies in the School of Nursing filled a year ahead, as is the case with some of the more fortunate schools of nursing, is not, we fear, an immediate prospect.

It will be noted that there has been a steady increase in the daily average number of patients in the Hospital until the year 1927, when, because of the discontinuance of the Maternity Service, the daily average number of patients dropped to 229 from 237 the year before. The total number of days of service dropped from 86,749 in 1926 to 83,552 in 1927. However, the total number of patients increased in 1927 to 5,892 while in 1926 it was 5,853. This is evidently due to a more rapid "turn over"

of patients as is evidenced by the fact that the average stay in 1927 was 14.2 as compared to 14.8 in 1926.

We wish to record our appreciation of the increasing spirit of co-operation that has been shown by all the Hospital personnel. Our thanks are gratefully extended to the employes for the faithful service which the Hospital has received and to the Trustees we are most grateful for their loyal help and service.

LOUIS H. BURLINGHAM, M. D., Superintendent.

Nationality of Patients

	1927	1926
American	5344	5294
Austrian	38	40
Armenian	0	8
Australian	0	5
African	1	0
Bulgarian	3	2
Bavarian	1	1
Bohemian	4	8
Canadian	26	14
Czecho Slovakian	4	2
Czech	0	5
Chinese	1	4
Dutch	3	2
Danish	3	4
English	28	33
European	11	5
French	8	17
German	121	119
Greek	16	20
Hungarian	25	24
Italian	67	63
Irish	21	29
Japanese	2	1
Lithuanian	4	1
Macedonian	0	1
Malayan	0	1
Mexican	11	5
Norwegian	4	1
Polish	28	16
Filipino	2	1
Russian	68	95
Saxon	0	1
Roumanian	7	2
Scotch	11	10
Spanish	1	4
Swiss	14	0

NATIONALITY OF PATIENTS

	1927	1926
Swedish	10	3
Serbian	2	3
Sicilian	0	2
Turkish	3	3
Welsh	0	2
West Indian	0	2
	5892	5853

Religion of Patients

	1927	1926
Adventist	11	8
Apostolic	0	3
All Saints	1	0
Baptist	906	799
Buddhist	2	1
Brethren	2	0
Congregationalist	70	75
Christian Church	290	279
Christian Scientist	30	18
Church of God	21	5
Church of Christ	7	7
Catholic	1027	985
Dutch Reformed	0	1
Divine Scientist	3	5
Episcopalian	196	211
Evangelical	177	130
Ethical Society	2	2
Friends (Quakers)	3	2
Greek	3	9
Greek Orthodox	11	10
Holiness	4	9
Jewish	229	282
Latter Day Saints	10	8
Lutheran	215	227
Mohammedan	2	1
Methodist	1046	995
Moravian	3	2
Mennonite	2	0
Non Sectarian	386	596
Nazarene	5	1
Orthodox	14	4
Protestant (would not specify)	716	706
Presbyterians	454	430
Pentecostal	17	10
Rationalist	0	1
Reformed Church	3	0

RELIGION OF PATIENTS

	1927	1926
Sanctified	7	2
Spiritualist	4	2
Salvators	0	1
Salvation Army	1	0
Unitarian	11	21
Universalist	1	2
United Brethren	0	3
	5892	5853

Summary of Work Done

	1927	1926
Total Patients in Hospital at beginning	230	191
Total Patients admitted during year	5892	5853
Total Patients treated during year	6122	6044
Total Patients discharged during year	5959	5814
Total Patients in Hospital end of year	163	230
Total Free patient days	16003	14603
Total Part pay patient days	9589	10474
Total Pay patient days	57960	61672
Total Patient days	83552	86749
Average patients per day in Hospital	229	237
Average days per patient in Hospital	14.18	14.82
Percentage Ward days	.85	.84
Percentage Private Room days	.15	.16
Percentage Pay Days	.808	.832
Percentage Free Days	.192	.168
Average daily patients boarded	229	237
Average daily Employees and Nurses Barnes, Children's and Maternity Hospitals	444	397
Daily Cost provision all persons	.44	.46
Average Cost per patient per day	5.74	5.53

Comparative Statistics

FROM THE OPENING OF THE HOSPITAL THROUGH 1927

Year	Total No. Patients Adm.	Total Days Service	Total Days Free Service	Average Daily Census	Average Stay in Hospital	Operating Expenses	Operating Receipts	Deficit	Cost per Patient per Day
1915	1,980	36,622	8,360	94	18.5	$115,683.92	$64,837.13	$38,005.25	$3.00
1916	2,883	42,428	11,074	115	17.8	141,644.89	76,132.64	46,460.25	3.34
1917	2,622	50,771	12,845	136	19.3	170,012.44	98,354.98	51,096.20	3.35
1918	3,734	56,695	14,230	154	15.2	200,809.61	122,361.32	52,957.54	3.54
1919	3,478	53,132	13,336	146	15.2	235,924.89	135,660.27	70,488.69	4.44
1920	3,501	54,118	11,094	147	15.5	319,637.64	179,194.27	81,578.25	5.49
*1921	3,537	53,779	11,831	161	15.2	335,391.03	179,677.45	100,422.50	5.75
1922	4,095	59,696	10,223	163	14.6	385,511.35	206,081.30	92,594.94	5.56
1923	4,550	70,129	13,114	192	15.4	448,084.41	237,732.32	108,346.15	5.46
**1924	5,770	81,561	19,850	205	14.1	548,830.17	256,449.08	171,920.71	5.77
1925	5,224	80,230	17,404	220	15.4	528,221.09	257,247.43	152,894.43	5.66
1926	5,853	86,749	14,603	237	14.8	559,824.33	286,302.29	146,237.17	5.53
1927	5,892	83,552	16,003	229	14.2	562,655.58	272,468.37	152,325.41	5.74

*1921—11 months.

**1924—13 months.

Report of the Medical Service

Although the organization of the medical service has remained practically unchanged, its activities have greatly increased.

Dr. Olmsted has been developing a method for the determination of non-volatile organic acids and has devised a new and much simplified procedure which is applicable to the study of the excretion of these acids from the animal body and also to their estimation in bacteriological cultures. In the study of dietetics it is not enough to know how much food has been digested. Our true object is to find out the amount which has been absorbed. While it is comparatively easy to measure the carbohydrate, fat and protein which has been taken in, our methods of determining absorption have been notably incomplete. Although the quantity of protein, fat and carbohydrate can be determined in stools, the many substances which may be derived from bacterial action upon these foodstuffs have scarcely been recognized. The non-volatile organic acids probably fall in this category. Dr. Olmsted has not only devised a method but has demonstrated that these acids under certain circumstances may be important factors in any calculation of food absorption. His work, therefore, has a fundamental bearing on any study of under-nutrition or obesity.

Dr. Ronzoni has investigated the carbohydrate metabolism of obesity, and has found that while there is no qualitative difference in normal and obese persons, there is a great quantitative difference which may, in part, explain the mechanism of obesity. When carbohydrate enters the body it undergoes several changes, one of which is its transformation into fat. By means of a detailed study of respiratory quotients Dr. Ronzoni has been able to show that in obese subjects the conversion into fat is more rapid and complete. This is one of the very few differences which have ever been demonstrated in a comparison of metabolism of normal and very fat subjects. Its exact significance has not yet been determined.

In the chemical laboratory Dr. Ronzoni and others have been making important observations upon the metabolic activity of surviving mammalian tissue. This has been studied both by means of chemical analysis of glycogen, total carbohydrate, glu-

cose, phosphates and lactic acid and by means of the Warburg apparatus which permits the study of gaseous exchange in living tissue.

Special emphasis has been placed on the study of glycolysis or the non-oxidative breakdown of carbohydrate, a mechanism which has great physiological importance inasmuch as it is intimately associated with the mechanism of muscular contraction, of growth and perhaps particularly of growth in malignant tumors. In this laboratory important and original observations have been made on the differences which exist in the process of glycolysis in striated muscle, in smooth muscle, in blood and in cancer. A study has been made concerning the action of a pancreatic extract which was first used in the laboratory of Sir F. Gowland Hopkins at Cambridge. This is not insulin and not trypsin. It is closely associated with pancreatic amylase and may possibly be identical with it. The glycolytic activity of muscle is greatly modified by this preparation and the glycolysis of muscle extrate is completely inhibited by it. It has no influence upon the glycolytic function either of blood or of cancer tissue. By a most painstaking analysis, Dr. Ronzoni has been able to demonstrate the essential reasons for this difference.

Dr. Bulger has completed his investigation of the mechanism of gastric secretion. With the assistance of Dr. Duff Allen of the Department of Surgery, he was able to study simultaneously the conditions in the gastric vein and compare these with the conditions in the general circulation. By means of elaborate analyses of acid base equilibrium in the blood, he succeeded, for the first time, in demonstrating directly the exact means by which an acid gastric secretion may be produced from an alkaline plasma.

Dr. Bulger has also done some fascinating work on the disease known as "milk sickness" or "white snake root poisoning." Although this condition has not recently attracted great attention, it has formed one of the very interesting chapters in the medical history of this country. In the pioneer days, during the settlement of this particular district, it caused an appalling loss of life. Some outbreaks swept away a quarter of the population of a small community. History and tradition indicate that entire villages were frequently abandoned in fear of this plague. Since the middle of the last century there has been a marked decrease in the number of cases of milk-sickness, although occasional epi-

demics still occur. One of these recently caused the death of several people in Southern Illinois. It is now well established that the illness is caused by the ingestion of milk from cows feeding on white snake root. Dr. Bulger visited the district where the epidemic had occurred and collected some of the white snake root on which the cows had been grazing. By animal experiments he was able to demonstrate the probable mechanism of its poisonous action. He also outlined a treatment which, if applied promptly, should be effective in preventing future fatalities. The toxic principle has an action which in certain respects is not unlike that of insulin. It causes a very striking hypoglycemia from which the affiicted individual will die unless glucose is promptly administered.

Dr. Larimore who has been studying chronic colitis from a clinical and roentgenological standpoint, has introduced a new principle in the management of this baffling condition. In the past, dietetic measures for the treatment of colitis have been largely protective. The desire to avoid any possible irritation of the bowel has been the controlling principle in dietetic management. Diets have often been ill-balanced and extremely inadequate in many essential features. Some of the foods containing vitamines, such as tomatoes and fruit, have been sedulously avoided and the vitamine content has been generally neglected. Dr. Larimore has been feeding to his patients diets containing very large amounts of vitamines with abundant tomato juice, fruit juices, codliver oil and desiccated brewer's yeast. This management, far from harming the patient, has caused great improvement in many and in some has seemed to be the effective agent in establishing a cure. The beneficial action has been graphically shown by a roentgenological study of the colon during the course of the treatment. By emphasizing the need of high vitamine content in the food, Dr. Larimore has undoubtedly added a most important practical feature to our therapy.

The observations on colitis form only a part of a large program which Dr. Larimore has undertaken. Until recently, the roentgenological observation of the alimentary tract has been chiefly concerned with the determination and elimination of anatomical changes. It is becoming more and more evident, however, that observation of the alimentary canal reveals much functional disturbance, a study of which has important clinical uses. De-

tailed studies are being made of tone, rotation, dilatation of the various parts of the gastrointestinal tract in their relation to clinical symptoms.

Through the generosity of Mr. and Mrs. J. Herndon Smith, Dr. Gorham was enabled to carry out with Dr. Stroud and Dr. Huffman very interesting studies on the chloride concentration and acidity of the gastric contents. This work is a continuation of Dr. Gorham's important observations concerning the necessary conditions for accurate gastric analysis.

In the Heart Station Dr. Luten has been analysing the electrocardiographic phenomena which occur in hypertensive and arteriosclerotic heart disease. He has been able to show changes in the electrocardiogram which indicate heart damage, much earlier than shown by other examination. He has also found that these characteristic tracings resemble closely the serious condition of bundle branch block and that bundle branch block may actually occur, disappear and recur if these cases are watched over long periods.

In allergy, the work during the past year has largely followed the lines of research that were established in this department during 1924 and 1925. These include laboratory experiments which, for the most part, are referable to some clinical aspect of allergy.

The study of localized allergy has been continued by Dr. Alexander. It had been demonstrated in this laboratory that in certain animals which are rendered sensitive to foreign protein substances, the distribution of sensitivity is not uniform, but is confined largely to particular organs. It is now pointed out that a similar condition occurs in man. The skin, which is a susceptible organ, was studied from the standpoint of its antibody content and distribution. These were found to be extremely variable. This has a direct bearing on skin-testing which is widely practiced and modifies the interpretation of resulting reactions.

A clinical study of the heart in long-standing asthma was reported by Drs. Alexander, Luten and Kountz. This showed that, contrary to an age-old contention, the heart remains singularly free from damage in these cases. The underlying mechanism that is responsible for this result is being investigated by Drs. Smith and Alexander and Harter. Direct pressure readings of the right auricle, left carotid artery and the pleural cavity as well as of respiratory volume are recorded simultaneously. It

appears that the right heart fills less during the occurrence of bronchospasm. Thus less work is thrown upon the heart, a fact which may explain why the heart is spared in asthma.

Along the same lines, the intensive study of the circulation of patients during an asthmatic paroxysm is being carried out by Drs. Kountz and Bulger. Electrocardiographic and teleroentgenographic records, arterial and venous pressure readings and determinations of the oxygen unsaturation of arterial and venous blood are made and compared to similar readings taken between attacks. This study is not completed sufficiently to warrant conclusions at this time.

Dr. Alexander has begun a study of urticaria or hives. Based on the production of artificial wheals in dogs and the influence of certain drugs upon them, the treatment of urticaria by the internal administration of hydrochloric acid was instituted. The clinical work was carried on with the co-operation of Dr. Eyermann and the results are sufficiently striking to warrant an extensive investigation of the problem which will be undertaken next year.

Dr. Eyermann who is in charge of the asthma clinic of the Out-Patient Department, has reported a series of cases of vasomotor rhinitis of which foods rather than volatile matter were the immediate causative agent.

The report of the Surgical Service will detail the remarkable developments which have taken place in this Hospital in the diagnosis and treatment of chest conditions. Dr. Singer of the department of medicine has worked in the closest possible association with Dr Graham in the chest clinic. Dr. Singer's diagnostic ability in this field is unexcelled. In addition to the very thorough methods which he has had at his command, he has developed a method for administering iodized oil by cannula which makes it one of the simplest of diagnostic procedures.

The Friday Staff conferences which were started in 1924 have developed and expanded, until they now include all clinical departments of the medical school. They have been largely attended by the staff of Barnes Hospital, Children's Hospital and Maternity Hospital. An unusual group of interesting and important cases has been presented. In these conferences there have also been shown new diagnostic procedures and minor contributions from the various departments.

Important advances have been made in the correlation of the work of the Hospital with Washington University Dispensary. Several clinics are now organized so that patients may pass from the Hospital to the dispensary and back again without serious interruption in their management. This has been especially true of the thyroid cases in which the medical, surgical and dispensary management has been almost completely unified.

A list of the publications of the department follows:

Abel, Oliver, Jr.

(1) Polycythemia Vera. J. Mo. State Med. Assn., March, 1927, 24:106.

Alexander, Harry Louis

(1) (With J. Holmes and W. Becke) Smooth muscle in anaphylactic guinea pigs. Exaggerated response to mixtures of sensitized tissue and homologous antigens. J. Immunol., 1926, 12:401.

(2) (With Drew Luten and Wm. B. Kountz) The effects on the heart of long-standing bronchial asthma. J. A. M. A., 1927, 88:882.

(3) With A. Kendall and J. Holmes) The effects of formaldehyde on smooth muscle contraction in anaphylaxis. J. Infect. Dis., 1927, 41:137.

(4) Localized Allergy. Med. Clin. N. A., 1927, 11:399.

(5) (With C. H. Eyermann) Food allergy in Henoch's Purpura. Arch. Der ı. & Syph., 1927, 16:322.

Barr, David Preswick.

(1) (With Ethel Ronzoni) A comparison of glycolysis in muscle and in cancer tissue. J. Clin. Invest., 1927, 4:439.

(2) The diagnosis of multiple liver abscess. Med. Clin. N. A., 1927, 11:455.

Cady, Lee D.

(1) (With S. I. Schwab) Use of tryparsamide in neurosyphilis. Am. J. Syphilis, 1927, 11:1.

(2) Injections of alcohol for angina pectoris; Injections of alcohol for tabetic crisis. J. Mo. State Med. Assn., 1927, 24:230.

(3) (With B. F. Francis) The supracondyloid process in the feeble-minded. Amer. J. Phys. Anthrop, 1927, 10:387.

(4) Acetic Anhydride-Sulphuric acid test. Arch. Neurol. & Psych., 1927, 18:565.

Eyermann, Charles H.

(1) (With Harry L. Alexander) Food allergy in Henoch's Purpura. Arch. Derm. & Syphil., 1927, 16:322.

(2) Nasal manifestations of allergy. Annals of Oto. Rhin. & Laryn., 1927, 36:808.

(3) X-ray demonstration of colonic reaction in food allergy. J. Mo. State Med. Assn., 1927, 24:129.

Ewerhardt, Frank H.

(1) A practical method of teaching posture, J. Mo. State Med. Assn., 1927, 24:381.

(6) The treatment of Colles' fracture by diathermy and other methods. Arch. Phys. Ther. X-ray Rad., 1927, 8:186.

Glaser, Jerome.

(1) The lactic acid content of cerebrospinal fluid. Jour. Biol. Chem., 1926, 69:539.

Grant, Samuel B.

(1) Management of goitre patients with congestive heart failure. Med. Clin. N. A., 1927, 11:569.

(2) The heart in goitre. Bartlett: Surgical treatment of goitre, pub. by C. V. Mosby Co., 1926.

Gorham, Frank D.

(1) Factors in gastric acidity. Trans. Amer. Gastro-Entero. Assn., 1926, 37.

Korb, J. H.

(1) (With Kazuo Miyamoto) Meniscocytosis (latent sickle cell anemia). Its incidence in St. Louis. So. Med. Jr., 1927, 20:912.

Kountz, William Bryan

(1) (With H. L. Alexander and D. W. Luten). The effects on the heart of long-standing bronchial asthma. J. A. M. A., 1927, 88:882.

Larimore, Joseph W.

(1) Cholecystography, observations on the oral administration of sodium tetraiodophenolphthalein. Radiology, 1926, 6:156.

(2) (With A. O. Fisher) Tuberculosis of the caecum. Annals of Surgery, 1926, 83:496.

(3) Colitis. Jour. Ind. State Med. Assn., 1926, 19:299.

(4) The human large intestine in the newborn and the adult. Annals of Clin. Med., 1926, 5:439.

(5) Phytobezoar. Med. Clin. N. A., 1927, 11:499.

(6) (With E. A. Graham) Divercula and duplicature of the duodenum. Surg. Gyn. and Obst., 1927, 45:257.

Lawrence, Zonja, Wallen

(1) (With Ethel Ronzoni) Determination of lactic acid in blood. Jour. Biol. Chem., 1927, 74:363.

Luten, Drew W.

(1) Coronary thrombosis of lesser severity with special reference to the value of electrocardiography in the diagnosis. Med. Clin. N. A., 1927, 11:445.

(2) On the use of quinidin in auricular fibrillation. Ibid.

(3) (With H. L. Alexander and Wm. B. Kountz) The effects on the heart of long-standing bronchial asthma. J. A. M. A., 1927, 88:882.

Miyamoto, Kazuo

(1) (With J. H. Korb) Meniscocytosis (latent sickle cell anemia). Its incidence in St. Louis. So. Med. Jr., 1927, 20:912.

Olmsted, William H.

(1) Intoxication following amputation in diabetes. Med. Clin. N. A., 1925, 9:169.

(2) Teaching dietetics to medical students and interns. Dietary Admin. and Therap., 1925, 3:533.

(3) (With Sherwood Moore, M. K. Tedstrom and R. C. Bond) Cholecystography in diabetes mellitus J. A. M. A., 1926, 87:1603.

(4) Treatment of diabetic acidosis. J. Metab. Research, 1925, 7:29.

(5) Steam distillation of volatile fatty acid. Proc. Soc. Exp. Biol. and Med., 1926, 24:897.

(6) Three years of experience with insulin in the treatment of diabetes mellitus. Ill. Med. J., 1927, 52:496.

Ronzoni, Ethel

(1) (With Michael Somogyi) The presence of a polysaccharide-like substance in blood. Proc. Soc. Exp. Biol. and Med., 1926, 24:220.

(2) (With Zonja Wallen-Lawrence) Determination of lactic acid in blood. Jour. Biol. Chem., 1927, 74:363.

(4) Inhibition of lactic acid formation in muscle by extract of desiccated pancreas. Proc. Soc. Exp. Biol. of Med., 1927, 25-178.

Schwab, Sidney I.

(1) Changes in personality in tumors of the frontal lobe. Jr. of Neurol., 1927, 50:480.

(2) (With Lee D. Cady) Use of tryparsamide in neurosyphilis. Am. J. Syph., 1927, 11:1.

Singer, Jesse J.

(1) Pneumothorax. Arch. Surg., 1925, 10:312.

(2) Diagnostic pneumothorax. Ann. Clin. Med., 1926, 4:907.

(3) (With E. A. Graham) Treatment of bilateral lung suppuration. Amer. Review of Tuberculosis, 1926, 13:225.

(4) Simple method of introducing iodized oil into the lungs. J. A. M. A., 1926, 87:1298.

(5) Bronchography. Arch. Surg., 1927, 14: part II:167.

(6) (With E. A. Graham) Roentgen-ray study of bronchiectasis. Am. Jour. Roent. and Rad. Ther., 1926, 15:54.

(7) Collapse therapy in pulmonary disease. J. Mo. State Med. Assn., 1927, 24:139.

(8) (With Sherwood Moore) Use of iodized oil in chest diagnosis. So. Med. Jour., 1927, 20:134.

(9) Heliotherapy in chest diseases. Arch. Phys. Ther., 1927, 8:240.

Strauss, Arthur E.

(1) Heart block, auricular flutter and adenoma of thyroid. Med. Clin. N. A., 1927, 11:487.

Thompson, Lawrence Dorland.

(1) Intussusception terminating in "spontaneous elimination." Amer. Jour. Dis. Child., 1927, 34:640.

(2) The present status of our knowledge concerning the etiology and treatment of pernicious anemia. Okla. State Med. J., May, 1927.

(3) (With Elsa Ebel) A comparison of 10,000 Wassermann and Kahn tests run in parallel. Journ. Lab. and Clin. Med., 1927, 12:1087.

Weiss, Richard S.

(1) (With C. W. Lane and W. A. Showman) Pityriasis rosea. Arch. Derm. and Syph., 1927, 15:304.

(2) Review of syphilis, Nelson's loose-leaf medicine service, Volume, May, 1927.

DAVID P. BARR, Physician-in-Chief.

Report of the Surgical Service

1926-1927

The task of writing a report of this kind is always made more agreeable when it is possible to record accomplishments of a kind which denote progress towards an ideal goal. It is a pleasure to be able in this report to record a number of such accomplishments.

In Europe the word hospital is reserved almost exclusively for large charitable institutions for the care of the sick poor. They are usually connected with medical schools, and teaching and investigation into the hidden secrets of medicine are carried out within their walls. It is these hospitals which have the great reputations and whose names are well known throughout the medical world. For the private patient who can pay for his medical and surgical care other institutions, known as nursing homes, exist. The idea of an institution which should admit both charitable and private patients originated in America, and this conception of a hospital is still practically unknown outside of America. At the present time, however, the vast majority of American hospitals are nursing homes in the European sense. Of the several thousand hospitals in this country, only a few, perhaps a couple of dozen or so, have made themselves conspicuous either as educational centers or as institutions where important new contributions to medical knowledge have been developed. The Barnes Hospital has the enviable reputation of being one of these few institutions. Throughout Europe, despite its brief existence, it is already well known because of the important discoveries and investigative work which have been carried out here; and even beyond Europe, in Australia, Japan, China and elsewhere it is already known to the leaders in medicine. This reputation should be a source of gratification to all those who are interested in the welfare and future of the hospital.

Some of the work done during the last two years by members of the staff which has attracted particular attention has been as follows: Dr. Robert Elman has interested himself in studies on the pancreas. He has found the surprising fact that, in the experimental animal, drainage outside the body of all the pancreatic digestive juice results in death in approximately a week. This is an entirely new and unsuspected observation. From a clinical standpoint he has had a still more interesting result from his work.

He has devised an entirely new and original method of diagnosing diseases of the pancreas which is simple and accurate. There has always been difficulty in accurately recognizing severe acute destructive changes in the pancreas. These changes also are likely to result in death very quickly, unless they are treated by operation but the likelihood of confusing them with severe disturbances of the heart has made surgeons very cautious about operating sometimes when operations should be undertaken. Dr. Elman's new test will do much to clear up this confusion, and already in the Barnes Hospital it has been the means of saving some lives by definitely establishing the diagnosis of pancreatic disease.

Dr. Elman and Dr. Olch have been carrying out some very important observations which show that, even under normal circumstances, the pancreatic secretion gets back into the stomach and, since the pancreatic juice is alkaline, it helps to neutralize the strongly acid stomach secretions. It would seem also from their work that the reason for the apparently great acidity of the stomach, in case of gastric ulcer, is due to the fact that the pancreatic juice is unable to get back into the stomach in normal amounts because of a spasmodic, or actual, obstruction of the pyloric end of the stomach.

Dr. Warren Cole and Dr. Nathan Womack have been conducting some very important experiments with reference to the thyroid gland. It is a curious fact that in almost all postmortem examinations the thyroid gland has been practically neglected by the pathologist. Drs. Cole and Womack have found that whenever there is a serious infection or poisoning elsewhere in the body the thyroid gland is very markedly affected and its reaction to such a serious condition, as mentioned above, is of a type similar to the changes observed in the thyroid gland in cases of exophthalmic goiter. The gland loses its iodine very quickly, it enlarges, and on microscopic examination many of the changes are seen which are observed in cases of exophthalmic goiter. Also, as in the case of exophthalmic goiter, they find that these changes can be prevented by the administration of iodine. These observations have been regarded as of such importance that they were asked to present them to the American Medical Association, the Society for the Study of Internal Secretions, and the Society for the Control of Goiter. Dr. Womack is particularly to be commended on the fact that, despite all the distractions which constantly come

to the resident in surgery, he was able, nevertheless, to find time to carry on this work with Dr. Cole.

Dr. Copher carried out several experimental studies on the gallbladder and on other topics. This work for the most part concerned itself with studies in the manner of emptying the gallbladder. The discovery of cholecystography greatly stimulated discussion and investigation concerning the manner in which the gallbladder empties itself. Some of this work was done with Dr. Shuichi Kodama, who came here from Japan as a protege of Baron Takaki to spend two years in the Department of Surgery. While here Kodama published independently an important study on the lymphatics of the gallbladder, the liver and the intestine. The practical importance of this work was that it helped to explain why, not infrequently, there is found a coincident ulcer of the duodenum with an inflammation of the gallbladder.

Dr. D. K. Rose continued his very important work on the study of bladder pressures. Dr. Duff Allen completed two experimental studies, one on the etiology of empyema, and the other on the manner of production of lung abscess. In the former study he showed that presence of blood in the pleural cavity perhaps always precedes the development of empyema. This has obvious important surgical implications. In the second study he showed conclusively that abscess of the lung can be produced by inhalation. He also showed why many of the previous experimental studies on this question have resulted in failure.

Dr. Edwin P. Lehman continued his studies on fat embolism. Dr. Edgar F. Fincher, Jr., under the direction of Dr. Sachs began an intensive microscopic study of brain tumors using some of the newer Spanish methods of staining.

In connection with the Chest Service Dr. Singer and the writer published several papers on the diagnosis and treatment of various diseases of the lungs, notably suppuration and tumors of the lung.

Dr. Frank S. Dolley, of California, who came to spend a year as a voluntary assistant in the Chest Service, after having spent a year in physiology at Yale and a year in pathology and chest surgery in Europe, made with Dr. E. Robert Wiese, of Pennsylvania, another voluntary assistant, an interesting and important study of the effect of pneumothorax on the lymphatic drainage of the chest. They found that the lymphatic flow was

very seriously impeded by the production of a pneumothorax. This has many important bearings on clinical problems.

No better evidence of the growing reputation and prestige of the hospital could be obtained than the desire on the part of young men from various parts of the world to come here for study. During the years 1926-27 the following men arrived for various prolonged periods of study: Shuichi Kodama, already mentioned above, came as a protege of Baron Takaki, of Tokio, and spent two years. C. F. W. Illingworth, of Edinburgh, Scotland, came here as a fellow of the Association of Surgeons of Great Britain and Ireland and stayed a year. He obtained his fellowship under the direction and help of Professor Wilkie of Edinburgh, who sent him here. He in turn was replaced by Bruce Dick, also of the University of Edinburgh, who came on a fellowship of the International Health Board of the Rockefeller Foundation and stayed eight months. Both Dr. Illingworth and Dr. Dick co-operated with Dr. Copher in some experimental studies. The work which Dr. Copher and Dr. Dick did is particularly significant in that they showed that the blood from certain parts of the portal system strikes certain parts of the liver. The phenomenon of "stream lines" which is well known to hydraulic engineers, was found by them to occur in the portal blood. Previously it had always been supposed that the blood in the portal vein was intimately mixed and that, therefore, there was no selective distribution of it within the liver. There is the possibility of far reaching significance in these results in that they suggest that perhaps different parts of the liver have different functions. Physiologists have generally considered the liver as a single organ with each part of it having the same function as other parts.

Dr. W. J. Newing and Dr. J. G. Hayden came from Australia to spend a period of six months. They were particularly interested in the work of the Chest Service and they devoted most of their time to that.

Dr. G. C. Thomson came on an International Health Board Fellowship from South Africa and stayed for about four months.

Dr. Frank S. Dolley, from California, and Dr. E. Robert Wiese, from Pittsburgh, were voluntary assistants in the Chest Service, each with an interest and a desire to learn our methods in the diagnosis and treatment of chest diseases.

Your surgeon-in-chief was invited to speak before the British Medical Association in July, 1926, on the gallbladder, with particular reference to cholecystography. The meeting was held at Nottingham, in the old Robin Hood country close to Sherwood Forest. It was largely attended and this particular speaker was very hospitably and kindly received. The method of cholecystography, however, was already in rather general use throughout Great Britain at the time of this meeting. Also in the same July he went from England to Paris to speak on Cholecystography before a large organization known by the name of "Journees Medicales de France". This was a new organization. In type of membership and in scope of activities it closely resembles the Interstate Postgraduate Assembly of this country.

On June 7, 1927, the St. Louis Medical Society did a very unusual and a much appreciated act when they conferred on Dr. Cole, Dr. Copher, Dr. Sherwood Moore and your surgeon-in-chief a gold medal and a certificate of award for the discovery and development of cholecystography.

The Barnes Hospital entertained a number of societies interested in the surgical developments of this hospital. In December, 1926, the American Association of Neurological Surgeons held its meeting here as guests of Dr. Ernest Sachs. The program extending over two days was furnished by Dr. Sachs and Dr. Klemme with the assistance of several other members of the staff. On December 15, 1926, the St. Louis Association of Surgeons met here. In the morning an operative clinic was given for them and in the evening a program dealing with some of the newer research work going on in the department was presented to them. On January 21, 1927, the Middle Section of the American Laryngological, Rhinological and Otological Society met in the hospital. Dr. Sluder and Dr. Lyman arranged a program for them. On September 27, 1927, the Mississippi Valley Conference on Tuberculosis came to the Barnes Hospital to attend a clinic on surgical diseases of the chest. About 100 members of this conference stayed throughout the afternoon and discussed with Dr. Singer and the writer the various cases which we had presented. On November 4 and 5, 1927, the Clinical Surgical Society held its regular fall meeting at the Barnes Hospital. This organization has about 50 active members, composed of the heads of various surgical clinics and some others. In addition there are about 25

senior members who have passed out of the active membership. Despite the fact that they represent perhaps the most critical group in American surgery it is always a great pleasure to entertain them. On this occasion only about two hours were devoted to operations and the rest of the time was devoted to the demonstration of new experimental work done in the Department of Surgery, demonstration of cases, etc.

The tornado in September, 1927, filled the hospital very quickly with a large number of injured patients. The organization of facilities for taking care of this large number of injured people was due to the splendid co-operation of the entire personnel of the hospital. The whole scene resembled very much the sudden influx of patients following the tornado in southern Illinois in the spring of 1925.

Publications of various members of the Department of Surgery that have appeared during the years 1926-27 follow:

Abbott, Leroy C.

(1) Treatment of old congenital dislocation of hip, with special reference to use of skeletal traction before reduction by operation. Arch. Surg., May, 1926, Vol. 12, pp. 983-1003.

(2) (With Jostes, F. A.) Simple method for correction of deformity in bony ankylosis of hip joint. Surg. Gynec. Obst., Feb., 1926, Vol. 42, pp. 274-282.

(3) Correction of deformity in quiescent disease of hip. J. A. M. A., Oct. 2, 1926, Vol. 87, pp. 1095-1102.

(4) Operative lengthening of tibia and fibula. J. Bone and Joint Surg., Jan., 1927, Vol. 9, pp. 128-152.

(5) Treatment of crippling conditions in children, with special reference to prevention of deformities. J. Missouri M. A., Aug., 1927, Vol. 24, pp. 341-346.

Alden, Arthur M.

(1) Gastro-intestinal disturbances in infants as result of streptococcus infection in ears. South. M. J., May, 1926, Vol. 19, pp. 360-362.

(2) Thrombosis of lateral sinus with extreme rheumatoid arthritis. Ann. Otol. Rhin. and Laryng., June, 1926, Vol. 35, pp. 561-563.

(3) New procedure in treatment of chronic maxillary sinus suppuration in children. Arch. Otolaryng., Dec. 1926, Vol. 4, pp. 521-525.

(4) Mastoid infections in infants. Arch. Otolaryng., Jan., 1927, Vol. 5, pp. 39-42.

(5) Cerebrospinal fistula following ethmoidectomy: recovery, Ann. Otol. Rhin. and Laryn., March, 1927, Vol. 36, pp. 121-123.

Allen, Duff S.

(1) (With Barker, P. S.) Surgery of mitral valve; experimental electrocardiographic study. Am. Heart J., Aug., 1926, Vol. 1, pp. 693-702.

(2) Etiology of empyema; haemothorax in idiopathic and postoperative empyema, Surg. Gynec. Obst. July, 1927, Vol. 45, pp. 23-34.

Arbuckle, Millard F.

(1) Paranasal cell infection as cause of infectious arthritis. J. A. M. A., Sept. 25, 1926, Vol. 87, pp. 1035-1036.

(2) Oto-rhinological infections as etiological factor in diseases of children. J. Tennessee M. A., July, 1927, Vol. 20, pp. 85-92.

(3) Foreign body impacted in lower air and food passages; report of 51 cases. J. Missouri M. A., October, 1927, Vol. 24, pp. 445-459.

Blair, Vilray P.

(1) Problem of bringing forward retracted upper lip and nose. Surg. Gynec. Obst., January, 1926, Vol. 42, pp. 128-132.

(2) Operative correction of facial palsy. South M. J., Feb., 1926, Vol. 19, pp. 116-120.

(3) Repair of defects caused by surgery and radium in cancers of hand, mouth and cheek. Am. J. Roentgenol., Jan., 1927, Vol. 17, pp. 99-100.

(4) (With Brown, J. B.) Septic osteomyelitis of bones of skull and face; plea for conservative treatment. Ann. Surg., Jan, 1927, Vol. 85, pp. 1-26.

Brown, James B.

(With Blair, V. P.) Septic osteomyelitis of bones of skull and face; plea for conservative treatment. Ann. Surg. Jan., 1927, Vol. 85, pp. 1-26.

Caulk, John R.

(1) Urological problems in children. South M. J., May, 1926, Vol. 19, pp. 351-357.

(2) Pyelonephritis; its incidence, engendering elements and impelling influences. J. Urol., Aug., 1926, Vol. 16, pp. 117-123.

(3) Sarcoma of bladder. J. Urol., Sept., 1926, Vol. 16, pp. 211-223.

(4) Resection of stricture of superior renal pelvis for relief of partial hydronephrosis. Surg. Gynec. Obst., Sept., 1926, Vol. 43, pp. 279-281.

(5) Fallacious orifice; value of cautery punch operation. Illinois M. J., October, 1926, Vol. 50, pp. 317-327.

(6) Progress in surgery of prostatic obstruction; Remarks on author's punch operation. J. Tennessee M. A., May, 1927, Vol. 20, pp. 16-20.

(7) Our silver anniversary; celebrating our contributions to renal surgery. J. Urol., Aug., 1927, Vol. 18, pp. 137-144.

Cole, Warren H.

(1) (And Others) Simultaneous cholecystography and tests of hepatic and renal functions by single new substance, sodium phenoltetraiodophthalein; preliminary report. J. A. M. A., Feb. 13, 1926, Vol. 86, pp. 467-468.

(2) (And Others) Cholecystography; use of phenoltetraiodophthalein. J. A. M. A., June 19, 1926, Vol. 86, pp. 1899.

(3) (With Copher, G. H.) Cholecystography. Internat. Abstracts Surg., Jan., 1926, pp. 1-6.

(4) Cholecystography. J. Kansas M. Soc., Dec., 1926, Vol. 26, pp. 386-388.

(5) (And Others) New phases of physiology of biliary tract. Ann. Surg., Sept., 1926, Vol. 84, pp. 343-351.

(6) Use of halogenated phenolphthalein in cholecystography and determination of liver function. J. Kansas M. Soc., Feb., 1927, Vol. 27, pp. 48-50.

(7) Suture of wounds of heart, with report of recent case. Ann. Surg., May, 1927, Vol. 85, pp. 647-652.

(8) (With Lehman, E. P.) Parathyroid hormone and calcification of fracture callus. J. A. M. A., Aug. 20 1927, Vol. 89, pp. 587-588.

Copher, Glover H.

(1) (And Others) Simultaneous cholecystography and tests of hepatic and renal functions by single new sub-

stance, sodium phenoltetraiodophthalein; preliminary report. J. A. M. A., Feb. 13, 1926, Vol. 86, pp. 467-468.

(2) (And Others) Cholecystography; use of phenoltetraiodophthalein. J. A. M. A., June 19, 1926, Vol. 86, p. 1899.

(3) (With Cole, W. H.) Cholecystography. Internat. Abstracts Surg., Jan., 1926, pp. 1-6.

(4) (And Others) New phases of physiology of biliary tract. Ann. Surg., Sept., 1926, Vol. 84, pp. 343-351.

(5) (With Kodama, S.) Regulation of flow of bile and pancreatic juice into duodenum. Arch. Int. Med., Nov., 1926, Vol. 38, pp. 647-653.

(6) (With Kodama, S. and Graham, E. A.) Filling and emptying of gall bladder. J. Exper. Med.. July, 1926, Vol. 44, pp. 65-73.

(7) The filling and emptying of the gall bladder, Bulletin of the St. Louis Medical Society, April 8, 1926, Vol. 20, p. 13.

(8) The effect of diet on the biliary tract, The Journ. of the American Dietetic Assoc., Sept., 1926, Vol. 2, p. 104.

(9) (With Dr. C. F. W. Illingworth) Further studies on the emptying of the gall bladder. Proc. Soc. Exp. Biol. and Med., Dec., 1927, Vol. 25, p. 172.

Costen, James B.

Diptheria infection of middle ear and mastoid. Arch. Otolaryng., Feb., 1927, Vol. 5, pp. 119-121.

Crossen, Harry S.

(1) Bleeding myoma of uterus; management of different types. J. Missouri M. A., Sept., 1926, Vol. 23, pp. 321-327.

(2) Headache from gynecological standpoint. J. Missouri M. A., Dec., 1926, Vol. 23, pp. 429-430.

Fisher, Arthur O.

(1) (With Royston, G. D.) Appendicitis in pregnancy. Am. J. Obst. & Gynec., Feb., 1926, Vol. 11, pp. 184-188.

(2) (With Larimore, J. W.) Tuberculosis of caecum. Ann. Surg., April, 1926, Vol. 83, pp. 496-522.

Graham, Evarts A.

(1) (With Warren H. Cole, Glover H. Copher and Sherwood Moore) Simultaneous cholecystography and tests of hepatic

and renal functions by a single new substance, sodium phenoltetraiodophthalein; preliminary report. Jour. A. M. A., 1926, Vol. 86, p. 467.

(2) Discussion on vital capacity, Arch. Surg., 1926, Vol. 12, p. 280.

(3) (With J. J. Singer) Roentgen-Ray study of bronchiectasis. Am. Jour. Roentgen, 1926, Vol. 15, p. 54.

(4) (With J. J. Singer) The treatment of bilateral lung suppuration. Am. Review of Tuberculosis, March, 1926, Vol. 13, p. 225.

(5) Gallbladder diagnosis from the standpoint of the surgeon. Radiology, April, 1926, Vol. 6, p. 273.

(6) The treatment of abscess of the lung. Ann. of Clin. Med., May, 1926, Vol. 4, No. 11, p. 926.

(7) Cholecystography: The use of phenoltetraiodophthalein, Jour. A. M. A., June 9, 1926, Vol. 86, p. 1899.

(8) (With G. H. Copher and S. Kodama) The filling and emptying of the gallbladder. Jour. Exper. Med., 1926, Vol. 44, p. 65.

(9) (With W. H. Cole, G. H. Copher and S. Kodama) Some new phases of the physiology of the biliary tract. Ann. of Surg., 1926, Vol. 84, p. 343.

(10) Some recent developments in our knowledge of the biliary tract. British Med. Jour., 1926, Vol. 2, pp. 671-676.

(11) The surgical treatment of pulmonary suppuration in children. Jour. A. M. A., 1926, Vol. 87, p. 806.

(12) (With S. Kadoma) The lymphatics of the extrahepatic biliary passages. Surg. Gyn. and Obst., 1926, Vol. 43, p. 140.

(13) New developments in our knowledge of the gallbladder (McArthur Lecture). Am. Journ. Med. Soc., 1926, Vol. 172, p. 625.

(14) Le Diagnostic des cholecystite et le mecanisme de vidage de la vesicule biliaire. Revue Medicale Francaise, 1927, Vol. 8, p. 119.

(15) (With W. H. Cole) Simultaneous cholecystography and determination of liver function. Proc. Soc. Exp. Biol. and Med., 1927, Vol. 24, p. 500.

(16) The present status of cholecystography and remarks on the mechanism of emptying of the gallbladder. Surg. Gyn. and Obst., 1927, Vol. 44, p. 153.

(17) Report of surgeon-in-chief of Barnes Hospital, annual report of Barnes Hospital, 1924-25.

(18) The teaching of clinical work to the undergraduate. Jour. Am. Med. Assoc., 1927, Vol. 88, p. 1379.

(19) The treatment of pulmonary suppuration. Ann. of Surg., 1927, Vol. 86, p. 174.

(20) (With J. W. Larimore) Diverticula and duplicature of the duodenum. Surg. Gyn. and Obst., 1927, Vol. 45, p. 257.

(21) The year book of surgery, 1926, Practical medicine series.

(22) The Department of Surgery, Washington University School of Medicine, St. Louis; methods and problems of medical education, eighth series, Rockefeller Foundation, 1927, p. 327.

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Syphilis of epididymis. Am. J. Syph., April, 1927, Vol. 11, pp. 202-207.

Hansel, French K.

Mastoiditis without apparent otitis media. Arch. Otolaryng. May, 1926, Vol. 3, pp. 433-437.

Hourn, George

Two instruments for resection of antrum windows. Archives Otolaryng., Dec., 1927, Vol. 6, p. 572.

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(1) Epiphyseal coxa vara or displacement of capital epiphysis of femur in adolescence. J. Bone and Joint Surg., Jan., 1926, Vol. 8, pp. 53-117.

(2) Physiotherapy in orthopedic surgery. J. Missouri M. A., May, 1926, Vol. 23, pp. 169-172.

(3) Skeletal traction clamp permitting full extension of extremity. Surg. Gynec. Obst., June, 1926, Vol. 42, pp. 842-844.

(4) Mechanisms involved in removal of colloidal and particulate carbon from joint cavaties. J. Bone and Joint Surg., July, 1926, Vol. 8, pp. 666-683.

(5) Brittle bones and blue sclera; hereditary hypoplasia of mesenchyme. Arch. Surg., Oct., 1926, Vol. 13, pp. 523-567.

(6) Treatment of tuberculosis of hip. J. Missouri M. A., November, 1926, Vol. 23, pp. 388-396.

(7) Diagnostic problems in hip in early life. J. A. M. A., Jan. 8, 1927, Vol. 88, pp. 82-87.

(8) Hypermobility of joints as sex linked hereditary characteristic. J. A. M. A., May 28, 1927, Vol. 88, pp. 1710-1712.

Kodama, Shuichi

(1) Lymphatics of extrahepatic biliary passages. Surg. Gynec. Obst., 1926, Vol. 43, pp. 140-146.

(2) Model to simulate mechanism of emptying of gallgladder. Am. J. Physiol., 1926, Vol. 77, pp. 385-388.

(3) (And Others) New phases of physiology of biliary tract. Ann. Surg., 1926, Vol. 84, pp. 343-351.

(4) (With Copher, G. H.) Regulation of flow of bile and pancreatic juice into duodenum, Arch. Int. Med., 1926, Vol. 38, pp. 647-653.

(5) (With Graham, E. A., and Copher, G. H.) Filling and emptying of gallbladder. J. Exper. Med., 1926, Vol. 44, pp. 65-73.

Lehman, Edwin P.

(1) Recklinghausen's neurofibromatosis and skeleton; plea for complete study of disease. Arch. Dermat. and Syph., Aug., 1926, Vol. 14, pp. 178-187.

(2) (With Moore, R. M.) Fat embolism including experimental production without trauma. Arch. Surg., March, 1927, Vol. 14, pp. 621-662.

(3) Interrupted continuous suture. J. Missouri M. A., Nov., 1927, Vol. 24, pp. 513-514.

(4) (With Cole, W. H.) Parathyroid hormone and calcification of fracture callus. J. A. M. A., Aug. 20, 1927, Vol. 89, pp. 587-588.

Lyman, Harry W.

(1) Otolaryngologic phase of focal infections. Ann. Otol. Rhin. and Laryng., Dec., 1927, Vol. 36, pp. 903-912.

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(3) Mastoiditis in infants. J. Missouri M. A., Dec., 1927, Vol. 24, pp. 541-543.

McMahon, Bernard J.

Pathology of spheno-ethmoidal sinusitis. Arch. Otolaryng., October, 1926, Vol. 4, pp. 310-333.

Newell, Quitman U.

(1) Use of iodinized oil (iodipin) as diagnostic aid in gynecology. Am. J. Obst. and Gynec., August, 1926, Vol. 12, pp. 189-199.

(2) Importance of gynecological examination. J. Missouri M. A., Dec., 1926, Vol. 23, pp. 435-438.

O'Keefe, Charles D.

(1) Relation of hypothyroidism to obstetrics and gynecology. South. M. J., May, 1927, Vol. 20, pp. 375-379.

(2) (With Crossen, R. J.) Autotransplantation of endometrial tissue in dogs. J. Missouri M. A., June, 1927, Vol. 24, pp. 252-254.

Olch, Isaac Y.

Chronic cholecystitis; analysis of 100 consecutive cases diagnosed with cholecystography and treated by cholecystectomy, in which end results were investigated. Am. J. M. Sc., March, 1927, Vol. 173, pp. 368-374.

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(1) Physical therapy in orthopedic surgery. Arch. Physical Therapy., May, 1927, Vol. 8, pp. 252-254.

(2) Posture, J. Missouri M. A., May, 1927, Vol. 24, pp. 199-205.

(3) State care of crippled children. J. Missouri M. A., Aug., 1927, Vol. 24, pp. 347-351.

(4) Abnormalities of lower part of back. J. A. M. A., Oct. 1, 1927, Vol. 89, pp. 1128-1131.

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(1) Tonsils and adenoids. Arch. Otolaryng., April, 1926, Vol. 3, pp. 365-373.

(2) Displacement irrigation of nasal sinuses: new procedure in diagnosis and conservative treatment. Arch. Otolaryng., July, 1926, Vol. 4, pp. 1-13; also in Tr. Sec. Laryng. Otol. and Rhin. A. M. A., 1926, pp. 172-180.

(3) Special syringe for displacement irrigation of nasal sinuses. Arch. Otolaryng., Nov., 1926, Vol. 4, p. 424.

(4) Physics of sinus drainage. Ann. Otol. Rhin. and Laryng., Mar., 1927, Vol. 36, pp. 23-33.

(5) (With Ernst, E. C.) Sinus mapping by displacement method. Radiology, June, 1927, Vol. 8, pp. 502-511.

(6) Further data on displacement method in sinuses. Ann. Otol. Rhin. and Laryng., June, 1927, Vol. 36, pp. 297-323.

(7) Visualization of sinus drainage. Ann. Otol. Rhin. and Laryng., Dec., 1927, Vol. 36, pp. 978-990.

Rainey, Warren R.

Prolapse of rectum in children. Illinois M. J., Oct., 1926, Vol. 50, pp. 345-348.

Rose, Dalton K.

(1) Stages in formation of bladder diverticula. South. M. J., Mar., 1926, Vol. 19, pp. 206-212.

(2) Determination of bladder pressure with cystometer; new principle in diagnosis. J. A. M. A., Jan. 15, 1927, Vol. 88, pp. 151-156.

(3) Pathogenesis of bladder diverticula. Arch. Surg., Feb., 1927, Vol. 14, pp. 554-565.

(4) Cystometric bladder pressure determinations; their clinical importance. J. Urol., May, 1927, Vol. 17, pp. 487-501.

Sachs, Ernest

(1) Neurologic conditions of head; their early diagnosis. Northwest. Med., Jan., 1926, Vol. 25, pp. 14-17.

(2) Radical treatment of trigeminal neuralgia with review of 71 operations on gasserian ganglion without a death. J. Missouri M. A., Feb., 1926, Vol. 23, pp. 43-47.

(3) Differential diagnosis of various types of spinal cord lesions. J. Missouri M. A., June, 1926, Vol. 23, pp. 204-206.

(4) Fractures of skull. Wisconsin M. J., Feb., 1927, Vol. 26, pp. 60-65.

(5) Present-day status of surgery of brain tumors. South. M. J., Mar., 1927, Vol. 20, pp. 171-178.

(6) (With Glaser, M. A.) Definite level symptoms suggesting spinal tumor; study of 33 patients subjected to laminectomy. J. A. M. A., Jan. 29, 1927, Vol. 88, pp. 308-310.

(7) (With Fincher, Edgar F., Jr.) Anatomical and physiological observations on lesions in the cerebellar nuclei in macacus rhesus. (Preliminary report.) Brain, 1927, Vol. 50, Parts 3 and 4, p. 350.

(8) Symptomatology of a group of frontal lobe lesions. Brain, 1927, Vol. 50, parts 3 and 4, p. 474.

Seelig, Major G.

(1) Endometrial adenoma (implantation) in vermiform appendix. Am. J. Obst. and Gynec., April, 1926, Vol. 11, pp. 461-468.

(2) (With Probstein, J. G.) Subacute ileocolic intussusception secondary to carcinoma of ileum. Surg. Gynec. Obst., June, 1926, Vol. 42, pp. 769-771.

(3) Fundamental principles underlying operative cure for inguinal hernia. J. A. M. A., February 19, 1927, Vol. 88, pp. 529-532.

(4) Critique of operative therapy of angina pectoris based on case of vocal cord paralysis following sympathectomy. Am. J. Surg., October, 1927, Vol. 3, pp. 315-320.

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(2) Injection of nasal ganglion and comparison of methods Ann. Otol. Rhin. and Laryng., Sept., 1927, Vol. 36, pp. 648-655.

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Taussig, Fred J.

Amniotic fluid and its quantitative variability. Am. J. Obst. and Gynec., Oct., 1927, Vol. 14, pp. 505-517.

EVARTS A. GRAHAM, Surgeon-in-Chief.

Report of the Obstetrical Service

Since the report of the Obstetrical Service in Barnes Hospital for 1924 and 1925 was written there have been no marked changes in the organization of the Department. In that report it was stated that in July, 1924, the Department of Obstetrics took up the development of its own pathological, chemical, bacteriological and serological laboratories. The work of these laboratories has been developing favorably and has had considerable effect on the treatment of patients in the obstetrical service. Particularly, outstanding in this direction are the treatments which have been followed out in cases of early toxemia of pregnancy, eclampsia and puerperal infection. These procedures have become so effective that they have been practically standardized.

The treatment of the early toxemias of pregnancy and eclampsia is under the supervision of Dr. Wm. J. Dieckmann, who is in charge of the biochemistry laboratory. Through Dr. Dieckmann's efforts intravenous glucose solution has been used very extensively. By careful preparation of the glucose solution and careful technique in its administration, unfavorable by-effects have been practically eliminated. Formerly abortion was frequently recommended in the early toxemia of pregnancy; it is now seldom recommended and rarely performed. It has only been done in such cases where the patient has been in a very extreme condition at the time of admission.

The conservative treatment of eclampsia has been carried out quite successfully. This is due chiefly to the practice of using magnesium sulphate intramuscularly to control the convulsions and to the use of intravenous glucose solution to bring about promptly a marked elimination of urine, in such cases where this function had been almost entirely suppressed. The use of magnesium sulphate intravenously had its introduction in this country by Dr. E. Lee Dorsett of our staff. This drug had been used abroad on one or two occasions a good many years ago to control convulsions of eclampsia, but its use as suggested and developed by Dr. Dorsett is entirely original. The use of this drug with the use of copious amounts of glucose solution given intravenously are procedures which, if properly used, will do much to bring down the mortality in the severer cases of eclampsia.

The Department has given much consideration to the prompt and frequent use of blood transfusions in obstetrical cases. With the exception of cases of puerperal infection indications for transfusions occur in our field almost without exception as emergencies. A marked ante-partum and post-partum hemorrhage can occur without warning and to combat such conditions one must be ready to act immediately. It is for this reason that the citrate method of transfusion has been adopted by the obstetrical service and found so useful. Its technique of administration has been developed to such a degree that reactions are only occasionally seen. The citrate method is the simplest method of giving transfusions, and, therefore, when acting in emergencies where blood is needed quickly, it is the method of choice. The donors for such emergencies are usually members of the student staff, who are on the obstetrical service, an interne, or some employee of the institution who are available at all times. If relatives are present and are suitable, they are used. In the emergency we frequently resort to the use of a universal donor, a list of these being kept by the resident obstetrician. We are confident that a number of mothers have been saved chiefly by the prompt use of a transfusion, a direct result of this thorough organization.

The outstanding work that has been carried out during the time which this report covers are the studies which have been made on the bacteriology of our cases of puerperal infection. Briefly, this work revealed that anerobic streptococci played a major part in our cases of puerperal infection and that the ordinary pyogenic organisms were not such frequent offenders. It is interesting in this connection to mention that Schottmueller, of Hamburg, Germany, as early as 1910, called attention to this fact. His work, however, received practically no attention in Germany, and none in England and this country. Our work, therefore, is the first real confirmation of the investigations of Schottmueller and may force us to change our views as regards the etiology of some types of puerperal infections. As these anaerobic organisms can be found in the normal vagina, the question auto-infection naturally arises.

The increase in the admissions on the obstetrical service since 1921 is interesting. In previous reports it was shown that the Obstetrical Service had 574 admissions in 1921; 735 in 1922; 747 in 1923; 1011 in 1924; 978 in 1925; in the year 1926 the highest

number of admissions was obtained, 1,090; in 1927 up to August 15th, a period of eight and one-half months, there were 729 admissions.

On the 15th day of August, 1927, the obstetrical department was moved from Barnes Hospital to take up its new quarters in the new St. Louis Maternity Hospital immediately east of Barnes Hospital. During the thirteen years of the department's stay in Barnes Hospital I have been intimately connected with the affairs of the department. In this time, although the number of patients for teaching purposes was limited, we were able to teach students the essentials of obstetrics adequately. We also were able to demonstrate to them much valuable and interesting material dealing with abnormal phases of our subject. This was only possible, however, as a result of the earnest co-operation of the present superintendent of the Hospital. Since he took up his work in 1917 he never failed to allow the admission of an obstetrical emergency or the admission of some case which showed some interesting or abnormal condition, valuable particularly from the teaching standpoint. This was done irrespective of the patient's ability to pay. This was at times difficult because many of these cases were admitted to the colored wards where the number of beds in the Hospital are quite limited.

In concluding this report, our former Chief, Dr. Henry Schwarz, and myself, as heads of the department during its stay in Barnes Hospital, wish to take this opportunity to express our appreciation to the trustees and the superintendent of Barnes Hospital for their kind co-operation in the work of the department. This co-operation has aided to a considerable degree in developing the department of obstetrics to its present status so that it was enabled to begin its work in the St. Louis Maternity Hospital as a well-developed, full-time University Department.

Department of Obstetrics Chief Publications for 1916 and 1927

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Dieckmann, W. J.
The protective action of normal serum against placental extract in vitro. Proc. of Soc. for Exp. Biol. and Medicine, Vol. XXIII, pp. 589-591, 1926.

Dieckmann, W. J.
(With O. H. Schwarz) Anaerobic streptococci: their role in puerperal infection. Jour. of So. Med. Asso., Vol. XIX, pp. 470-479, June, 1926.

Dieckmann, J. W.
(With O. H. Schwarz) Puerperal infection due to anaerobic streptococci. Am. Jour. Ob. and Gyn., Vol. XIII, No. 4, p. 467, April, 1927.

Greer, E. D.
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OTTO H. SCHWARZ, Obstetrician-in-Chief.

Report of the Pediatric Service

During 1921, a Pediatric Service was established in the Barnes Hospital primarily for the purpose of assuming the medical care of the newly born infants delivered in the Obstetrical wards. Previous to this time the Obstetrical service had been responsible for the care of these infants. Certain members of the Department of Pediatrics of the Washington University School of Medicine were assigned to the Pediatric Service of the Barnes Hospital. The Resident Physician of the St. Louis Children's Hospital was aspointed Resident Pediatrician of the Barnes Hospital and the internes in the St. Louis Children's Hospital were assigned in rotation to the newly born wards.

The plan was a successful one from the start. Through cooperation of the Obstetric and Pediatric Departments, newly born infants received careful supervision. Infants suffering from serious conditions necessitating special treatment were transferred to the St. Louis Children's Hospital for further care.

On discharge from the hospital mothers living in the adjoining districts were referred to the Pediatric Out-Patient Department of the Washington University where they were able to obtain, at regular intervals, instructions in the care of their infants. The Pediatric Service at first assumed responsibility only for ward patients, but the arrangement proved so satisfactory that it soon became the general custom for Obstetricians delivering patients in the Private Pavilion to request that the newly born infants be cared for by members of the Pediatric staff from time of birth.

The members of the Pediatric Staff have, from the outset, been active in making intensive studies of the care and feeding of newly born infants and as a result of these studies a number of important improvements have been made, especially in the feeding of these infants. Studies have also been made on the causes of fever in the newly born, congenital hydrocephalus, hemorrhagic disease of the newly born and convulsive disorders.

With the opening of the St. Louis Maternity Hospital in September 1927, the Barnes Hospital ceased to admit Obstetrical patients. At the same time the activities of the Pediatric staff were transferred to the Maternity Hospital and the Pediatric service in the Barnes Hospital was discontinued.

McKIM MARRIOTT, Pediatrician-in-Chief.

Report of the Physical Therapeutic Department

The use of physical remedies as an adjunct to the other well-established and recognized remedies employed by the physican and surgeon is becoming more fixed.

Electro-Therapy, massage, exercise, ultra-violet radiation and hydro-therapy are being used more generally today than ever before.

The Physical Therapeutic Department in Barnes Hospital is rated as one of the finest and most completely equipped of any such department connected with a hospital in the United States.

The types of cases treated are patients from Barnes Hospital, Children's Hospital, Washington University Dispensary and others sent in by outside physicians not connected with the hospital. All types of non-infectious diseases are treated, but more especially bone and joint conditions, including fractures and arthritis; the various forms of paralysis, neuritis, and diseases of nervous origin.

The number of treatments given by the department has steadily increased, as may be gleaned from the following figures:

	Clinic	Ward	Pavilion	Outside	Chil. H.	Total
1916	3218	296	190	542	59	4305
1917	5014	982	438	1182	116	7752
1918	4915	536	728	1538	84	7801
1919	4917	739	610	1740	44	8134
1920	2786	945	410	1604	105	5817
1921	3667	1174	336	2347	262	8076
1922	5533	1240	343	1764	176	9056
1923	4270	1051	173	2591	140	8225
1924	4537	1186	393	2222	197	8535
1925	3246	1789	333	2191	138	7697
1926	2715	2308	373	3146	71	8613
1927	2440	3271	400	3181	73	9365
	47258	15517	4727	24048	1465	93289

The staff consists of the physician in charge, three female and one male operator.

F. H. EWERHARDT, Physician in Charge
Physical Therapeutic Department.

Report of Department of Pathology

During the years 1926-27 autopsies have been performed as follows:

1926

	Number of Deaths	Number of Autopsies	Percentage
Obstetrical Service	10	5	50.00
Pediatric Service	20	6	30.00
Medical Service	117	67	57.26
Surgical Service	138	54	39.13
Totals	285	132	46.31

1927

	Number of Deaths	Number of Autopsies	Percentage
*Obstetrical Service	3	1	33.33
*Pediatric Service	25	11	44.00
Medical Service	126	79	62.69
Surgical Service	147	75	51.02
Totals	301	166	55.14

*From January to July, inclusive.

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LEO LOEB, Pathologist-in-Chief.

Report of the Department of Roentgenology

The X-ray Department, which was opened in 1911, has until recently been operated as an adjunct of the Department of Surgery of the Washington University School of Medicine, under the direction of a Chief Roentgenologist. In 1927, the Director was made Professor of Radiology of the Washington University and the X-ray Department was created an independent Department of the School of Medicine.

In this laboratory, which at present occupies quarters in the Barnes Hospital building, are treated patients from the Barnes Hospital, the St. Louis Children's Hospital, the St. Louis Maternity Hospital and the Washington University Dispensary, and outside patients who are referred by members of the staffs of the above institutions. The laboratory is also used by the School of Medicine for experimental work in medicine, surgery and anatomy.

Statistics show a steady increase in the number of patients examined and treated in the X-ray Department, which, with 22,240 patients during the years 1926 and 1927, has practically reached the limit of its capacity. However, as recently announced, through the magnanimity of the late Edward Mallinckrodt and Edward Mallinckrodt, Jr., of this city, and the Rockefeller Foundation, Division of Medical Education, the Department expects to build, within the near future, a Radiological Institute adjacent to the Barnes Hospital which will take care of its increasing clinical activities adequately and afford necessary provision for scientific research.

The past year has seen the perfection of the Graham, Cole and Copher method of visualization of the gallbladder, now known as Cholecystography, which procedure is carried on in the X-ray laboratory.

A large number of charity patients is cared for by this Department, less than 7 per cent of the total paying remunerative fees. The remainder pay nominal fees or are treated without charge. The larger number of free cases are cancer cases.

The clinical features of the laboratory cover all branches of radiology. Besides persons coming for general X-ray procedures, there were during the past two years, 1,700 persons suffering from

diseases of the digestive organs who had examinations with the barium meal; 1,200 persons had the Graham, Cole and Copher test for gallbladder disease; 500 X-ray examinations were attended by surgical procedures in the X-ray laboratory; and approximately 1,600 persons received X-ray therapy or radium application for malignant disease or lesion of the skin. A photographic studio is conducted in connection with the X-ray laboratory.

The staff of the X-ray Department includes, beside the Director, Dr. Oscar C. Zink, Assistant Roentgenologist and Assistant in Clinical Surgery; a gastroenterologist, Dr. Joseph W. Larimore, Assistant Professor of Clinical Medicine and Assistant Physician and Assistant Roentgenologist to the Barnes Hospital; an assistant for gastroenterology, Dr. H. W. Wiese, Assistant Physician to the Barnes Hospital. The personnel also includes four women technicians, two photographers, two secretaries, a bookkeeper, two stenographers and a film clerk.

Publications by members of the staff during the years 1926-1927 are as follows:

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(1) Cholecystography, observations on the oral administration of sodium tetraiodophenolphthalein. Radiology, Feb., 1926, Vol. 6, No. 2, pp. 156-158.

(2) (With Fisher, A. O.) Tuberculosis of the cecum. Annals of Surgery, April, 1926, pp. 496-552.

(3) Colitis. The Jour. of the Indiana State Med. Assn., Aug. 15, 1926, 19: pp. 299-303.

(4) The human large intestine in the new-born and in the adult. Annals of Clinical Medicine, Nov., 1926, Vol. 5, No. 5, pp. 439-463.

(5) Phytobezoar. North American Clinics, 1927.

(6) Diverticula and duplicature of the duodenum. Surgery, Gynecology and Obstetrics, Sept., 1927, Vol. XLV, No. 3, pp. 257-265.

Moore, Sherwood

(1) (With Evarts A. Graham, Warren H. Cole and Glover H. Copher) Simultaneous cholecystography and tests of hepatic and renal functions. The Jour. of the Am. Med. Assn., Feb. 13, 1926, Vol. 86, pp. 467-468.

(2) Cholecystography with especial reference to its employment on ambulatory patients. Southern Med. Jour., Feb., 1926, Vol. XIX, No. 2, pp. 106-109.

(3) (With Evarts A. Graham, Warren H. Cole and Glover H. Copher) Cholecystography: the use of phenoltetraiodophthalein. The Jour. of the Amer. Med. Assn., June 19, 1926, Vol. 86, p. 1899.

(4) The development and application of cholecystography. The British Jour. of Radiology (B. I. R. Section), August, 1926.

(5) Ibid., The Jour. of the Mo. State Med. Assn., Jan., 1926, pp. 17-21.

(6) (With M. K. Tedstrom, R. C. Bond and W. H. Olmsted) Cholecystography in diabetes mellitus. The Jour. of the Am. Med. Assn., Nov. 13, 1926, Vol. 87, pp. 1603-1605.

(7) Further observations on cholecystography. Medical Journal and Record. Feb. 16, 1927.

(8) (With J. J. Singer) Use of iodized oil in chest diagnosis. Southern Medical Journal, Feb., 1927, Vol. XX, No. 2, pp. 134-140.

(9) Osteitis deformans and the eye, ear, nose and throat specialities. Annals of Otology, Rhinology and Laryngology, Sept., 1927.

(10) Cholecystography: a summary. Radiology, Sept., 1927.

Zink, Oscar C.

(1) A clinical study of cholecystitis with the aid of cholecystography. Radiology, April, 1926, Vol. VI, No. 4, pp. 286-292.

(2) Newer phases of cholecystography and their interpretations. Radiological Review, Dec., 1926, Vol. III, No. 6, pp. 141-146.

SHERWOOD MOORE,
Roentgenologist-in-Chief.

Report of the Dental Department

Since our last report was made 972 patients have been treated in this Department. In the later part of 1927, a change was made whereby all new ward patients entering the medical service undergo a dental examination which consists of a complete X-ray examination of all suspicious teeth and areas where teeth have been extracted. Special note is made of the condition of both the hard and soft structures of the oral cavity.

In cases where treatment is necessary the patient is advised and treatment is given upon the consent of the patient either at the Hospital or referred to the family dentist. The time required for this work varies from two half days or more per week together with numerous emergency calls which are always promptly attended to. All the examining and operating is done by an Exodontist and two Dentists who are constantly in touch with the other Departments to determine the best procedure in each case.

We now have a dentist operating every morning in the Dispensary which has been a great help both to the patient and physician as well who formally had to send all Dental cases to the Dental College, 29th and Locust Streets. This work in the Dispensary will be discontinued in the Fall of 1928, as the new Dental College which is under construction opposite the dispensary will be completed and all cases for dental treatment will be referred directly to the Dental College.

I wish to thank all the Departments for their co-operation and Drs. Joedicke and Martine for their faithfullness, loyalty and interest in the work.

WM. B. SPOTTS, D. D. S.
Dental Surgeon, Barnes Hospital

Report of the Washington University School of Nursing

One of the most outstanding accomplishments of the school of nursing during the past year has been the building, equipping and opening of a large wing to the nurses residence which now adequately houses the students and faculty of the school of nursing and the graduate personnel of the affiliating hospitals. Another important event in the school's history has been the completion of the Maternity Hospital, which has made possible exceptional opportunities in the teaching of obstetrical nursing. Last autumn, a class of sixty-six (the largest in the history of the school), was admitted; an encouraging fact as it seems to indicate that young women are beginning to realize the advantages offered by a school connected with a university and with hospitals offering such splendid facilities as ours.

The need for larger living quarters for our personnel had been keenly felt for sometime, and the nursing service in the hospital has been greatly handicapped because of this lack. During the school year—1926 and 1927—the School of Medicine rented its men's dormitoroy to us as a temporary measure. Through these facilities, we were able to house a large number of our graduate nurses; otherwise, these young women would have had to secure rooms in the neighborhood. The new addition to our residence gives total accommodations for three hundred and eighty-five people.

On the first day of October, the entire building was filled, with the exception of the guest room; besides our students and graduates, we had twenty-five roomers—women medical students, social workers, student dietitians, special nurses and others. We have had many requests for rooms which we have been unable to meet. Our roomers have, therefore, helped to defray some of the extra expense of opening the addition

Mrs. LaBeaume and her committee have been most helpful in the work of equipping the residence. They assisted in the selection of the furnishings and have given many hours of time in conference over types of furniture, hangings, etc. Some of them have made important donations of furniture, mirrors, and other articles which have added greatly to the appearance of the home. Several paintings, loaned by the Art Museum, have been used in the library

and lounge. The Alumnae of the school presented a baby-grand piano which was most joyfully received and appreciated by everyone.

Through the generosity of Mrs. George Carpenter and Miss Sarah Tower, the grounds about the building have been landscaped and will be planted with trees and shrubs which will make an attractive lawn.

Mr. Trueblood, the architect, has taken unusual interest in working out many of the details which have made for the comfort and welfare of the residents. The results obtained are very satisfactory and the friends who visit us are most complimentary.

The formal opening of the residence was held on the 26th of November and Mr. Edwin R. Embree of the Rockefeller Foundation was the speaker of the evening. A goodly number of visitors were present and were taken through the building.

Both students and graduates seem very happy in their new quarters. Not only are the individual rooms comfortable and attractive but there is ample space for recreation of various kinds. There is, perhaps, no part of the building more enjoyed than the library where one may read and study in a peaceful and delightful atmosphere. The demonstration room is greatly appreciated by the instructors who are teaching nursing practice; also the dietetics laboratory has solved our problems for teaching cookery and diet in disease.

The offices for the school of nursing have been established in the new building and are proving most satisfactory as the office work of the school has been separated from that of the Barnes Hospital nursing service; thus avoiding the confusion of the two which formerly existed.

An honorary sorority, the Sigma Theta Tau, was organized in February, 1927. This sorority was started at the Indiana University School of Nursing. Only those students who have a scholastic standing of 87% and above are considered. They must also make the same grade in nursing practice and come up to certain standards of professionality and school spirit before they are eligible. Eighteen students met the requirements at the time of organization and two others were added at the end of the spring term. We trust that this organization will be a means of raising the scholarship of the school and of developing a finer school spirit within the school.

In August, the St. Louis Maternity Hospital was opened and the nursing service in obstetrics was transferred from Barnes Hospital. As the building is thoroughly modern and well equipped in every way, the students receive their obstetrical training under the most favorable conditions. Miss Nell Sims, who was in charge of this service in Barnes Hospital, was appointed Assistant Superintendent of Nurses at the Maternity Hospital.

On October 1st, 1927, an assistant to the director, Mrs. Myrtle Funsch Welch, was appointed to take charge of the nursing in the Dispensary. Mrs. Welch is an experienced public health nurse; and the plan is to develop the excellent educational opportunities which exist for student nurses in the Dispensary, especially along the lines of preventive and public health nursing.

The school was greatly benefited by the assistance of Miss Lucille Osborne, Assistant Physical Director at the College, who served as physical and social director during the years of 1925-26. An Athletic Association was formed and other school activities were stimulated and supervised. Miss Osborne resigned last Fall and, since her resignation, the physical training work of the school has been carried on by such hourly service as could be given by Miss Gladys Foster of the Hydrotherapy Department, who is a graduate in physical education. One of the most serious problems, which confront us at present, is that of securing a full time director to take charge of the physical and social activities of the school.

Miss Lucy C. Martin, a graduate of the school, was appointed a member of the faculty to do the publicity work for the school for the year 1927–1928. She is making many important contacts throughout the state.

During the two years, over two thousand requests for literature concerning the school have come to us, one hundred and sixty-nine applications have been received; one hundred and fifty-three of which have been accepted. Of this number, one hundred and thirty-one students have entered the school. During this period, twenty students have resigned and fourteen have been dropped. At the regular university commencement in 1926, twenty-five students were graduated; in 1927, thirty-six were graduated and one student received in addition a Bachelor of Science degree in Nursing. (She had completed the college requirements for the degree before entrance to the school of nursing.) There are, at present one hundred and fifty-seven students in the school of

nursing taking the three year course and fifteen carrying the five year program.

One of the most outstanding needs for the school is an endowment for its educational work and for a course in public health nursing, which is a part of our five year program. Many of the young women who desire to enter the five year course, do so because they wish to go into some phase of public health work. Our degree course will not continue to grow unless such a course can be established. The financial strain of the educational program is a burden to the hospitals, and should be relieved by an endowment. If the Washington University School of Nursing is to make real progress and is to rank among nursing schools as our medical school ranks among medical schools, an endowment must be secured in the very near future.

Miss Ruth Kittinger, Assistant Director of the School of Nursing and Assistant Superintendent of Nurses of Barnes Hospital, resigned June 1926, after two years of highly satisfactory service. Miss Dorothy Rogers, a graduate of Wellesley College and of the Presbyterian Hospital School of Nursing, Chicago, was appointed to succeed her. Miss Rogers has also had special work in administration at Teachers College, Columbia University, and has brought to the hospital not only a good background of preparation but a wealth of good sense and judgment. In July 1927, she was appointed Assistant Professor of Nursing. She has assumed the burden of the nursing service of the hospital.

The nursing service in Barnes Hospital has, during the past two years, been greatly stabilized by a more permanent graduate staff. The character of the work has, therefore, improved considerably. No floor duty nurses coming in by the day are now being employed. This has reduced the expense of graduate service to the hospital. As more students have been assigned to the wards, the number of graduates has been reduced.

BARNES HOSPITAL

The nursing staff in Barnes Hospital, January 1st, 1928, consists of the following:

Superintendent of Nurses	1
Asst. Superintendent of Nurses	1
Supervisors	6
Head Nurses	17
Floor duty nurses	34
Washington University students	53
Affiliating students	2
Post-graduate students	2
Total personnel	116

CLARIBEL A WHEELER,
Director, School of Nursing and
Superintendent of Nurses.

Report of the Washington University Dispensary

During the past two years there have been no outstanding changes in the conduct of the dispensary, which serves as the out-patient department of the Barnes Hospital, the St. Louis Children's Hospital and the St. Louis Maternity Hospital. The Jewish Hospital, having established its own out-patient department, is no longer served by our dispensary.

The dispensary is conducted by an executive committee consisting of the heads of the various clinical departments of the school and the hospitals, and its administration is in the hands of a superintendent appointed by the dean of the Washington University School of Medicine.

The functions of the dispensary are primarily, the training of medical students and nurses in the diagnosis and treatment of diseases in ambulatory patients and for supplying our teaching hospitals with clinical material. It is necessary therefore, to limit the patients to such a number as can be adequately taken care of. In some of the departments notably in medicine and oto-laryngology, the appointment system has been established, in order to carry out this plan. While this has tended to reduce the number of patients somewhat, it has on the whole, proven very successful.

Admission hours are daily from 9:00 to 10:00 and from 1:00 to 2:30. The registration fee at the present time is fifty cents for each visit. This fee was omitted in 46,566 cases in 1926, and in 43,495 in 1927. Other charges are made for anaesthetics, plasters casts, drugs and Xrays. These charges have also been omitted by the superintendent whenever it has been satisfactorily shown that the patient was unable to pay them.

The number of visits made to the various departments is shown in the following tables:

Clinic	1926 Free	1926 Total	1927 Free	1927 Total
Medicine	8,387	19,328	8,041	19,206
Genito-Urinary	2,446	8,283	2,708	8,990
Orthopedic	1,389	4,668	1,362	3,658
Neurology	2,910	6,003	2,949	5,863
Surgery	3,340	8,918	3,303	7,948
Dental	637	981	486	672
Oto-Laryngology	4,292	13,539	3,245	9,416
Pediatrics	5,747	13,401	5,027	12,319
Gynecology	2,119	6,455	1,963	6,330
Ophthalmology	3,910	10,826	3,609	8,977
Dermatology	2,496	6,410	2,438	5,631
Obstetrics	722	4,423	771	4,702
Night Clinic				
Dermatology	8,171	36,733	7,593	38,005
Total Number Day visits for year			103,235	93,712
Night visits for year			36,733	38,005
Grand Total			139,968	131,717
Average Daily Attendance			338	307
Average Nightly Attendance			182	187

The difficult position of superintendent has been very ably filled since 1925, by Miss Louise Peel, a graduate of the Washington University School of Nursing. She has had the aid of a thoroughly competent corps of assistants.

More room for expansion and to relieve the already crowded condition in some of the clinics is an urgent need.

A. O. FISHER, Medical Director.

Report of Hospital Social Service for Barnes Hospital

Definite progress in hospital social service during 1926 and 1927, has been made along educational lines. In the Fall of 1925, a Department of Social Work was established by Washington University under the leadership of Professor Frank J. Bruno and this department was asked to organize the course in medical social work. This was planned with the cooperation of Dean Marriott of the Medical School who asked a number of doctors to give the necessary medical lectures. The students taking the course were assigned to the social service department for practice work supervision. This has meant the teaching of social case work technique in the wards of Barnes Hospital. This is quite in keeping with the spirit of the hospital which has always emphasized education and training as one of its major functions. While the number of medical social students has been small, it is confidently expected their number will be increased from year to year.

Another development along educational lines has been the extension of work with the pupil nurses in the Washington University School of Nursing. The Director of the School and the Director of Hospital Social service were invited by the Rockefeller Foundation in December, 1926, to visit the Yale School of Nursing in order to study and observe their educational methods. Following this visit, plans were formulated to give a fifteen hour course in the case study method to the students in their Freshman year. Ten hours of this course, five in theory and five in case discussion and field visits, are given by social service. This is in addition to the fifteen hour course in the Social Aspects of Disease which is given during the Junior year. Both courses are under the direction of the Associate Director, Miss Ruth E. Lewis. The social workers also hold conferences with the nurses reporting and interpreting the social factors which the nurses must consider in writing their case histories of patients assigned to them.

The social case histories incorporated as part of the hospital records by the medical service of Barnes Hospital were described in the last annual report. This same practice is being followed with selected cases on the neuropsychiatric service.

The removal of the four social workers assigned to the medical service from an office in the corridor connecting Washington University Dispensary and Barnes Hospital to an office located near the medical wards of the hospital, has proved to be of inestimable value in promoting the functioning of these workers as an integral part of this hospital service. The accessibility of the office affords opportunity for frequent conferences with residents, internes, and nurses, as well as staff men and administrators. The problem of overcrowding is a serious one and it is hoped that additional space may soon be afforded. It would be a distinct advantage also if the surgical workers could be nearer the surgical wards.

Following the tornado which wrought such havoc in St. Louis on September 29, 1927, the social service staff was asked by the Red Cross to assume responsibility for all injured persons treated in hospitals where there was no social service department, or where the department was too small to undertake the work. By the evening of the following day, the Red Cross had been furnished with the names and diagnoses of these patients. The hospitals were frequently visited to see that every patient upon discharge had adequate clothing, housing facilities and maintenance. Medical follow-up when indicated was also undertaken. The Director and a staff worker, Miss Fern Searls, were loaned to the Red Cross for the rehabilitation work covering a period of three and a half months.

Social statistics of the patients in Barnes Hospital have never been separated from those treated in Washington University Dispensary, St. Louis Children's Hospital and St. Louis Maternity Hospital. The social service staff has carried in these four medical institutions social responsibility for 6,076 patients in 1926, and 4,253 in 1927. From the Washington University Dispensary there have been hospitalized in Barnes Hospital 1527 patients in 1926, and 1384 in 1927. This latter figure has undoubtedly been decreased by the transfer of all obstetrical patients with the opening of the St. Louis Maternity Hospital in August, 1927.

EDITH M. BAKER, Director

Report of the Barnes Hospital Library

The following table shows the number of books issued according to the fiscal year:

Year	Number of Books issued	Year	Number of Books issued
1915 (8 months)	1308	1922	5273
1916	3316	1923	5336
1917	4688	1924	5254**
1918	5097	1925	3796
1919	5617	1926	3419
1920	6454	1927	2748
1921	6805*		

*11 months due to change in fiscal year.
**13 months due to change in fiscal year.

In May, 1926, two members of the graduating class of the St. Louis Library School visited the library and asked permission to make rounds with the volunteer workers on book day in order to learn the practical side of our method. They came each week until school closed.

In 1926 and in 1927, students from the University of Illinois Library School visited the library.

In October, 1927, we returned our loan of Foreign Language books to the St. Louis Public Library. This group was the last of our loan from the Traveling Library Department and as they were being issued rather infrequently it seemed best to put them back into circulation.

There has been a decided increase in the number of magazines issued to patients. Figures cannot be quoted, however, as we do not charge magazines, neither do we catalogue them.

The Hospital desires to express its appreciation to the volunteers for their services; also to its friends for the donations of books, magazines, and subscriptions to the Saturday Evening Post, Ladies Home Journal, Good Housekeeping and Harper's Bazar. The affiliation with the St. Louis Public Library is also appreciated.

BESSIE E. TAYLOR
Record Keeper and Librarian

Report of the Chaplain

The duties of the Chaplain are many and varied.

Services are held each Sunday at 3:00 P. M. in the Robert A. Barnes Memorial Chapel which is located on the third floor of the main building. We preach unto them the gospel of hope, cheer and life eternal. Men and women of every creed and faith and of no creed and no faith attend these services and are helped mentally, physically and spiritually. The number at these services is gauged by the number of patients sufficiently convalescent to be present.

The Chaplain has in mind every patient, and feels that every patient has a claim upon his time, therefore, he seeks opportunities to minister to all who need that which is within his power to give.

During the course of a year thousands of bed-side visits are made to patients in wards, semi-private and private rooms and whatever may be their need, mental, physical or spiritual, that need is provided, if possible.

The Chaplain attends the District and Annual Conferences of Missouri and is given ample time to present the claims of Barnes Hospital and the Nurses Training School of Washington University, which is an affiliated institution with the hospital.

The religious and secular press have given much space to our campaign of publicity, and platform and pulpit have been used in presenting the merits of Barnes Hospital and the Nurses Training School. We feel that good has resulted from thus acquainting the public with the character and scope of work being done. Student nurses have been secured and the attention of men and women, with means, called to the need of a larger endowment and more student nurses. The student nurse receives the greater part of her practical training in Barnes Hospital.

Through the Annual Golden Cross Enrollment campaign in the Methodist Episcopal Church, South, in Missouri, the Chaplain is seeking to raise funds to help care for worthy sick poor who need hospitalization.

C. WESLEY WEBDELL, D. D., Chaplain

Trustees

RICHARD M. SCRUGGS	1892-1905
SAMUEL M. KENNARD	1892-1916
SMITH P. GALT	1892-1905
SAMUEL CUPPLES	1905-1912
MURRAY CARLETON	1905-1916
LON. V. STEPHENS	1912-1915
L. RAY CARTER	1915-1922
FRANK C. RAND	1916
PAUL BROWN	1916-1925
J. W. FRISTOE	1922
XENOPHON P. WILFLEY	1925

Barnes Hospital Staff

ADMINISTRATION

Louis H. Burlingham, M. D. . . . . .Superintendent
Lucius R. Wilson, M. D. . . . . .Assistant Superintendent
Laura Hornback, R. N. . . . . .Executive Assistant
Cornelia Sasse, R. N. . . . . .Admitting Officer

MEDICINE

David P. Barr, M. D. . . . . .Physician-in-Chief
Harry L. Alexander, M. D. . . . . .Associate Physician

Elsworth S. Smith, M. D.
Albert E. Taussig, M. D.
Walter Fischel, M. D.
Jerome E. Cook, M. D.
Walter Baumgarten, M. D.
William H. Olmsted, M. D.
Drew W. Luten, M. D.
Charles H. Eyerman, M. D.
Jacob J. Singer, M. D.
Warren P. Elmer, M. D.
Frank D. Gorham, M. D.
L. D. Thompson, M. D.
Alfred Goldman, M. D.
Sam B. Grant, M. D.
Francis M. Smith, M. D.
Arthur E. Strauss, M. D.
Joseph W. Larimore, M. D.
Lee Pettit Gay, M. D.
Anthony Day, M. D.
Hartwell N. Lyon, M. D.
Llewelyn Sale, M. D
Harold Bulger, M. D.
John W. Lawrence, M. D.
Lee D. Cady, M. D.
William G. Becke, M. D.
Hiram Liggett, M. D.
Meloh Heideman, M. D.
Oliver Abel, M. D.
Harry Wiese, M. D.
} Assistant Physicians

SURGERY

Evarts A. Graham, M. D.. . . . . .Surgeon-in-Chief

Ernest Sachs, M. D.
Vilray P. Blair, M. D.
John R. Caulk, M. D.
Leroy Abbott, M. D.
} Associate Surgeons

SURGERY—Concluded

Malvern Clopton, M. D.	Assistant Surgeons
Arthur O. Fisher, M. D.	
Archer O'Reilly, M. D.	
Major G. Seelig, M. D.	
Warren R. Rainey, M. D.	
J. Edgar Stewart, M. D.	
Glover H. Copher, M. D.	
D. K. Rose, M. D.	
Harry Greditzer, M. D.	
Otto J. Wilhelmi, M. D.	
J. Hoy Sanford, M. D.	
Edwin P. Lehman, M. D.	
Charles A. Stone, M. D.	
Roland M. Klemme, M. D.	
Duff S. Allen, M. D.	
I. Y. Olch, M. D.	
J. B. Brown, M. D.	
J. Albert Key, M. D.	
F. A. Jostes, M. D.	
Warren H. Cole, M. D.	
Theodore Brooks, M. D.	
Harry S. Crossen, M. D.	Gynecologist
Fred J. Taussig, M. D.	Assistant Gynecologists
Charles D. O'Keefe, M. D.	
Quitman U. Newell, M. D.	
R. M. Spivy, M. D.	
J. R. Vaughn, M. D.	
O. O. Smith, M. D.	

OBSTETRICS *

Henry Schwarz, M. D.	Consultant-in-Obstetrics
Otto H. Schwarz, M. D.	Obstetrician-in-Chief
Grandison D. Royston, M. D	Associate Obstetrician
Adolph D. Schlosstein, M. D.	Assistant Obstetricians
E. Lee Dorsett, M. D.	
Frank P. McNally, M. D.	
Hugo Ehrenfest, M. D.	
Richard Paddock, M. D.	
Otto St. Clair Krebs, M. D.	
William J. Dieckman, M. D.	

PATHOLOGY

Leo Loeb, M. D.	Pathologist
Frank A. McJunkin, M. D.	Associate Pathologist
Samuel H. Gray, M. D.	Assistant Pathologist

*On August 15, 1927, when the Maternity service was discontinued in Barnes Hospital, the members of the Obstetric staff were transferred to the Gynecological staff.

SPECIAL DEPARTMENTS

Joseph Erlinger, M. D.	Physiologist
Phillip A. Shaffer, Ph. D.	Chemist
Robert J. Terry, M. D.	Anthropologist
Herbert S. Gasser, M. D.	Pharmacologist
W. E. Shahan, M. D.	Ophthalmologist
Meyer Weiner, M. D. William F. Hardy, M. D. F. E. Woodruff, M. D. Max W. Jacobs, M. D. Lawrence Post, M. D. M. Hayward Post, M. D. Frederick L. Schwarz, M. D. B. Y. Alvis, M. D.	Assistant Ophthalmologists
Greenfield Sluder, M. D.	Otolarynologist
Millard F. Arbuckle, M. D. Eugene Van Meter, M. D. H. W. Lyman, M. D. Arthur W. Proetz, M. D. W. L. Hanson, M. D. George Hourn, M. D. Arthur Alden, M. D. Walter B. Hoover, M. D. Charles L. Davis, M. D. Richard J. Payne, M. D. F. C. Howard, M. D. French K. Hansel, M. D. James B. Costen, M. D. William F. A. Schulz, M. D. Charles Rehfeldt, M. D. B. J. McMahon, M. D.	Assistant Otolarynologists
Martin V. Engman, M. D.	Dermatologist
William F. Mook, M. D. A. H. Conrad, M. D. Richard Weiss, M. D.	Assistant Dermatologist
Sidney I. Schwab, M. D.	Neurologist
Andrew B. Jones, M. D. Archie D. Carr, M. D.	Assistant Neurologists
James A. Brown, D. D. S.	Dentist, Surgical Department
William B. Spotts, D. D. S.	Dentist, Medical Department
Harry Joedicke, D. D. S.	Assistant Dentist, Medical Department
Frank H. Ewerhardt, M. D.	Physician-in-Charge Physical Therapeutics
Sherwood Moore, M. D.	Roentgenologist
Joseph W. Larimore, M. D. Oscar Zink, M. D.	Assistant Roentgenologist

House Staff
1926-1927
MEDICAL

July 1, 1925	July 1, 1926	H. H. Riecker, M. D.	Residents
July 1, 1926	July 1, 1927	Leon Bromberg, M. D.	
July 1, 1927	July 1, 1928	George E. Nesche, M. D.	
July 1, 1925	July 1, 1926	Jerome Glaser, M. D.	Assistant Residents
Jan. 1, 1927	July 1, 1927	George E. Nesche, M. D.	
July 1, 1927	July 1, 1928	Richard C. Norton, D. D.	
July 1, 1925	July 1, 1926	Leon Bromberg, M. D.	Internes
July 1, 1925	July 1 1926	Floyd F. Gibbs, M. D.	
July 1, 1925	July 1, 1927	J. W. Beckman, M. D.	
July 1, 1925	Jan. 1, 1927	James J. Donahue, M. D.	
July 1, 1925	Jan. 1, 1927	Russell C. Bond, M. D.	
July 1, 1925	Jan. 1, 1927	George E. Nesche, M. D.	
Jan. 1, 1926	July 1, 1927	C. H. Woodmansee, M. D.	
Jan. 1, 1926	July 1, 1927	A. N. Schancke, M. D.	
Jan. 1, 1926	July 1, 1927	Roy D. Metz, M. D.	
July 1, 1926	Jan. 1, 1928	C. W. Duden, M. D.	
July 1, 1926	Jan. 1, 1928	G. S. Littell, M. D.	
July 1, 1926	Jan. 1, 1928	B. D. Francis, M. D.	
Jan. 1, 1927	July 1, 1928	William Kountz, M. D.	
Jan. 1, 1927	July 1, 1928	N. H. Plummer, M. D.	
Jan. 1, 1927	July 1, 1928	C. M. Stroud, M. D.	
July 1, 1927	Jan. 1, 1929	Walter M. Whitaker, M. D.	
July 1 1927	Jan. 1, 1929	W. B. Adamson, M. D.	
July 1, 1927	Jan. 1, 1929	Robert M. Evans, M. D.	
July 1, 1926	July 1, 1927	Myron W. Davis, M. D.	
July 1, 1926	July 1, 1927	George W. Gay, M. D.	Interne in Otolaryngology
July 1, 1926	July 1, 1927	Alva G. Heideman, M. D.	
July 1, 1926	July 1, 1927	Robert N. Moore, M. D.	
July 1, 1926	July 1, 1927	Gilbert L. McBee, M. D.	
July 1, 1926	July 1, 1927	J. M. McCaughan, M. D.	
July 1, 1926	July 1, 1927	Caleb S. Stone, M. D.	
July 1, 1927	July 1, 1928	Welles C. Sandison, M. D.	
July 1, 1927	July 1, 1928	Franklin E. Walton, M. D.	
July 1, 1927	April 1, 1928	Walter R. Peterson, M. D.	
July 1, 1927	July 1, 1928	William C. Goodlett, M. D.	
July 1, 1927	July 1, 1928	Clinton K. Higgens, M. D.	
July 1, 1927	July 1, 1928	William L. Smith, M. D.	
July 1, 1927	July 1, 1928	William W. Rambo, M. D.	
July 1, 1925	July 1, 1926	L. E. Freimuth, M. D.	
July 1, 1926	Dec. 6, 1926	Coleman C. Burnes, M. D.	
Dec. 6, 1926	July 1, 1927	Paul R. Nemours, M. D.	
July 1, 1927	Jan. 1, 1928	Colby Hall, M. D.	
July 1, 1926	July 1, 1927	William L. Smith, M. D. . . .	Interne in X-Ray.

OBSTETRICS

July 1, 1925	July 1, 1926	Charles Drabkin, M. D.	Residents
July 1, 1926	Jan. 1, 1927	Robert J. Crossen, M. D.	
Jan. 1, 1927	July 1, 1927	T. K. Brown, M. D.	
July 1, 1927	Aug.15,1927	Melvin A. Roblee, M. D.	

SURGICAL

July 1, 1924	July 1, 1926	Warren H. Cole, M. D.	Residents
July 1, 1926	July 1, 1927	J. W. Gale, M. D.	
July 1, 1927	July 1, 1928	Nathan Womack, M. D.	
July 1, 1925	July 1, 1926	J. W. Gale, M. D.	Assistant Residents
July 1, 1925	July 1, 1927	William B. Gnagi, M. D.	
July 1, 1925	July 1, 1926	C. E. Leuschner, M. D.	
July 1, 1925	July 1, 1926	Nathan Womack, M. D.	
Sept.28,1925	July 1, 1926	W. B. Faulkner, M. D.	
July 1, 1926	July 1, 1927	Louis Barrette, M. D.	
July 1, 1926	July 1, 1928	Robert Elman, M. D.	
July 1, 1926	July 1, 1927	William C. Hamm, M. D.	
July 1, 1926	Jan. 1, 1927	T. K. Brown, M. D.	
July 1, 1927	July 1, 1928	Edward M. Pickford, M. D.	
July 1, 1927	July 1, 1928	Alva G. Heideman, M. D.	
July 1, 1927	July 1, 1928	Caleb Stone, M. D	
July 1, 1927	Jan. 1, 1928	Myron Davis, M. D.	
Jan. 1, 1927	July 1, 1927	Robert J. Crossen, M. D.	
July 1, 1925	July 1, 1926	Louis C. Barrette	Internes
July 1, 1925	July 1, 1926	Robert J. Crossen, M. D.	
July 1, 1925	July 1, 1926	William C. Hamm, M. D.	
July 1, 1925	July 1, 1926	Emil E. Hartman, M. D.	
July 1, 1925	July 1, 1926	Abraham E. Hiebert, M. D.	
July 1, 1925	July 1, 1926	Carl H. Matthey, M. D.	
July 1, 1925	Jan. 8, 1926	Roy Keith, M. D.	Assistant Residents
July 1, 1927	Aug.15,1927	Paul S. Hines, M. D.	
July 1, 1925	July 1, 1926	Frans Arzt, M. D.	Internes
July 1, 1925	July 1, 1926	Myron W. Davis, M. D.	
July 1, 1925	July 1, 1926	Ben Fox, M. D.	
July 1, 1925	July 1, 1926	Melvin A. Roblee, M. D.	
July 1, 1926	July 1, 1927	E. D. Greer, M. D.	
July 1, 1926	July 1, 1927	T. M. Boulware, M. D.	
July 1, 1926	July 1, 1927	William W. Rambo, M. D.	
July 1, 1926	July 1, 1927	John S. Hines, M. D.	
July 1, 1927	Aug.15,1927	Frank W. McIndoe, M. D.	
July 1, 1927	Aug.15,1927	E. C. Drash, M. D.	
July 1, 1927	Aug.15,1927	J. E. Hobbs, M. D.	
July 1, 1927	Aug.15,1927	J. C. Buchanan, M. D.	

PATHOLOGY

July 1, 1925	July 1, 1926	George L. Drennan, M. D.	Resident
July 1, 1926	July 1, 1927	William D. Kountz, M. D.	
July 1, 1927	July 1, 1928	Richard T. Taylor, M. D.	

Register of Present Members of the Staff

Abbreviations

B. H.	Barnes Hospital.
J. H. H.	Johns Hopkins Hospital.
M. G. H.	Massachusetts General Hospital.
P. B. B. H.	Peter Bent Brigham Hospital.
St. L. C. H.	St. Louis Children's Hospital.
St. L. City H.	St. Louis City Hospital.
W. U. Disp.	Washington University Dispensary.
W. U.	Washington University.
Harv.	Harvard University.
J. H. M. S.	Johns Hopkins Medical School.
W. U. M. S.	Washington University Medical School.
I.	Interne.
M. I.	Interne on Medical Service.
S. I.	Interne on Surgical Service.
O. & G. I.	Interne on Obstetrical and Gynecological Service.

Abbott, Leroy Charles

M. D., U. of Cal. 1914; Surg.-in-Chief Shriner's H.; Prof. Clin. Orth, Surg. W. U. M. S.; Orth. to St. L. C. H.; Assoc. Surg. to B. H.

Abel, Oliver, Jr.

B. S., W. U. 1922; M. D., W. U. M. S. 1923; Asst. in Clin. Med. W. U. S. M.; Asst. Phy. to W. U. Disp.; Asst. Phy. to B. H.

Alden, Arthur Maxwell

A. B., U. of Okla. 1907; A. M., U. of Okla. 1909; M. D., St. L. U. 1915; Surg. to W. U. Disp.; Asst. Prof. of Clin. Oto-Laryngol. W. U. S. M.; Asst. Oto-Laryngol. St. L. C. H. and B. H.

Alexander, Harry Louis

A. B., Williams Col. 1910; M. D., Columbia U. 1914; Assoc. Prof. Med. W. U. S. M.; Assoc. Phy. B. H.

Allen, Duff Shederic

M. D., W. U. 1919; Asst. Prof. of Surg. W. U. S. M.; Surg. to W. U. Disp.; Visit. Surg. St. L. City H.; Asst. Surg. St. L. C. H., and B. H.

Alvis, Bennett Young

B. S., St. L. U. 1916; M. D., St. Louis U. 1918; Surg. to W. U. Disp.; Visit. Surg. to St. L. City H.; Assoc. Ophthalm., Jewish H., Instr. Clin. Ophthalm. W. U. S. M.; Asst. Ophthalm., St. L. C. H. and B. H.

Arbuckle, Millard Fillmore

M. D., W. U. S. M. 1909; Res. Phy. St. L. Mullanphy H. 1909-10; Instr. in Clin. Laryngol and Rhinol. and Asst. in Clin. Otol., W. U. S. M.; Bronchoscopist St. L. City H.; Mem. of Section on Laryngol. Royal Soc. of Med. London, England; Asst. Oto-Laryngol, to B. H.

Barr, David Preswick

A. B., Cornell U. 1911 and M. D. 1914; Busch Prof. of Med. W. U. S. M.; Phy.-in-Chief to W. U. Disp.; Visit. Phy. St. L. M. H. and Jewish H.; Phy.-in-Chief to B. H.

BAUMGARTEN, WALTER

A. B., J. H. U. 1894; M. D., St. L. Med. Col. 1896; I., Female H. and St. L. City H. 1896-97; Asst. in Physiol. Harvard Med. Sch. 1897-1898; Asst. in Med. J. H. Med. Sch. 1902-03; Lect. Clin. Chem. and Micros. W. U. S. M.; Instr. in Med. 1910-22; Instr. Clin. Med. 1922; Asst. Phy. to B. H.

BECKE, WILLIAM GEORGE

M. D., W. U. S. M. 1923; Asst. in Clin. Med., W. U. S. M.; Asst. Phy., B. H.

BLAIR, VILRAY PAPIN

A. M., Christian Bro. Col. 1890; M. D., St. L. Med. Col. 1893; I., St. L. Mullanphy H. 1893-95; Instr. Pract. Anatomy, Assoc. Prof. of Anatomy Clin. Prof. of Surg., W. U. S. M. 1894-1912; Visit. Surg. to St. Luke's H.; Prof. in Clin. Surg. W. U. S. M.; Assoc. Surg. to St. L. C. H., St. L. M. H. and B. H.

BROOKS, THEODORE P.

M. D., W. U. S. M., 1909; Instr. in Clin. Orth. Surg., W. U. S. M.; Asst. Surg. W. U., Disp.; Visit. Surg., St. L. City H.; Asst. Surg. to B. H.

BROWN, JAMES A.

D. D. S., W. U. Dental Sch. 1903; Instr. Gen. Histol., W. U. Dental Sch. 1907-17; Dental Consultant Barnard Free Skin and Cancer H., St. Luke's H. and St. L. City H.; Dentist to Dept. of Surg., B. H.

BROWN, JAMES BARRETT

M. D., W. U. 1923; Asst. in Clin. Surg. W. U. S. M.; Surg. St. L. C. H. and B. H.

BULGER, HAROLD ATEN

B. S., Ohio State U. 1916; M. D., Harvard U. 1920; Asst. Prof. of Med. W. U. S. M.; Phy. to W. U. Disp.; Asst. Phy. to B. H.

BURLINGHAM, LOUIS HERBERT

A. B., Yale 1902; M. D., J. H. M. S. 1906; I. M. G. H. 1906-07; Asst. Res. Phy. and Asst. Adm. M. G. H. 1907-12; Asst. Supt. P. B. B. H., 1912-17; Lecturer on Hosp. Adm. W. U. S. M.; Adm. of St. L. C. H. 1917 to 1925; Supt. of B. H. 1917.

CADY, LEE DE

A. B., Univ. of Mo. 1918; A. M., W. U. 1921 and M. D., 1922; Asst. in Clin. Neurol; Asst. Phy. to B. H.

CARR, ARCHIE DREYFUS

B. S., W. U. 1918 and M. D. 1921; Instr. in Clin. Neurol., W. U. S. M.; Phy. to W. U. Disp.; Asst. Neurol., B. H.

CAULK, JOHN ROBERTS

A. B., St. John's Col. 1901; A. M. 1912; M. D., J. H. M. S. 1906; I., and Second Asst. Res. Surg., J. H. H. 1908-10; Instr. in G. U. Surg. to St. Luke's H., Jewish H., St. L. C. H., St. L. M. H.; Collaborating Ed. Surg. Gyn. and Ob., also The Amer. Jour. of Syphilis; Prof. of Clin. G. U.; Surg. W. U. S. M.; Chief of Clin. for G. U. Surg., W. U. Disp.; Assoc. Surg. to B. H.

CLOPTON, MALVERN BRYAN

M. D., U. of Va. 1897; I., J. H. H., Baltimore 1898-99; Instr. in Clin. Surg., W. U. S. M. 1906-10; Chief of Surg. Clin., O'Fallon Disp. 1907-09; Visit. Surg., St. Luke's H.; Assoc. Surg., St. L. Mullanphy H. 1907-15; Asst. Prof. in Clin. Surg., W. U. S. M.; Assoc. Surg., St. L. C. H. and Asst. Surg. to B. H.

COLE, WARREN HENRY

B. S., U. of Kan., 1918; M. D., W. U. S. M. 1920; Instr., W. U. S. M.; Asst. Surg., St. L. C. H. and St. L. M. H.; Visit. Surg., St. L. City H.; Asst. Surg. B. H.

REGISTER OF PRESENT MEMBERS OF THE STAFF

CONRAD, ADOLPH HENRY

M. D., St. L. U. 1906; Instr. in Clin. Dermatol., W. U. S. M.; Phy. to W. U. Disp.; Visit. Phy. to St. L. City H.; Asst. Dermatol. to B. H.

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A. B., Harv. U., 1896; M. D., Columbia U., 1900; Prof. of Clin. Surg., W. U. S. M.; Asst. Surg. to B. H.

SHAFFER, PHILIP ANDERSON

A. B., W. Va. U., 1900; Ph. D. Harv., 1904; Res. Asst. Path. Chem., McLean H., Waverly, Mass., 1900-03; Asst. Fellow and Instr., in Chem. Path., Cornell U., 1904-10; Chem. to Huntington Fund for Cancer Research, 1906-10; Path. Chem. and Head of Chem. Section of Lab. of Bellevue H., 1909-10; Dean, W. U. S. M., 1915-19; Prof. of Biol. Chem., W. U. S. M., Chem. to the B. H.

SHAHAN, WILLIAM EWING

A. B., W. U., 1901; M. D., 1904; A. M., 1912; Prof. of Clin. Ophthalm. W. U. S. M.; Ophthalm. to St. L. C. H.; Ophthalm. in Chief to W. U. Disp.; Ophthalm., B. H.

SLUDER, GREENFIELD

M. D., St. L. Med. Col. 1888; I., St. L. City H., 1888-92; Instr. in Urinol. and in Clin. Med., 1891-98 and Lect. on Laryngol., St. L. Med. Col., 1898-99 and Med. Dept. of W. U., 1899-1905; Mem. of Staff of St. Luke's H., and Barnard Free Skin and Cancer H.; Clin. Prof. of Oto-laryngol., W. U. S. M.; Laryngol. to St. L. C. H., and W. U. Disp.; Consult., St. L. Jewish H.; Laryngol. to B. H.

SINGER, JACOB JESSE

M. D., W. U., 1904; Assoc. Prof. of Clin. Med., W. U. S. M.; Asst. Phy. to St. L. C. H., and B. H.

SMITH, ELSWORTH STRIKER

A. B., St. L. U., 1884; A. M., 1888; M. D., St. L. Med. Col. 1887; I., Asst. Phy. and Asst. Supt., St. L. City H., 1887-90; Demonstrator in Anatomy; Instr. in Phy. Diag. and Asst. Phy. to Med. Clin., St. L. Med. Col., 1889-99; Phy. to St. Lukes H.; Consult. Phy. to St. John's H., Barnard Free Skin and Cancer H., Frisco H., and St. L. M. H.; Prof. Clin. Med., W. U. S. M.; Asst. Phy. to B. H.

SMITH, ODA OSCAR

M. D., W. U. S. M., 1911; Asst. in Clin. Gyn., W. U. S. M.; Surg. to W. U. Disp.; Asst. Gyn., B. H.

SPIVY, RAYMOND MILLS

M. D., W. U. S. M., 1907; Instr. in Clin. Gyn., W. U. S. M.; Visit. Surg., St. L. City H.; Asst. Ob., St. L. M. H.; Asst. Gyn., B. H.

SPOTTS, WILLIAM B.

D. D. S., W. U. Dental Sch. 1917; Dentist to Dept. of Int. Med., W. U. Disp.; Dentist to B. H.

STEWART, JOSEPH EDGAR

M. D., U. of Pa., 1914; S. I., B. H., 1914-15; Surg. to W. U., Disp. 1915-20; Instr. in Clin. Orth. Surg., W. U. S. M.; Surg., W. U. Disp.; Asst. in Clin. Orth. Surg., B. H.

STONE, CHARLES ALLEN

B. S., Blackburn Col., 1904; M. D., W. U., 1908; Asst. Prof. of Clin. Orth. Surg., W. U. S. M.; Asst. Surg. to St. L. C. H.; Surg. to W. U. Disp.; Asst. Surg. to B. H.

STRAUSS, ARTHUR EDGAR

S. B., Harv. U. 1912; M. D. 1917; Instr. in Clin. Med., W. U. S. M.; Chief of Med. Clin., W. U. Disp.; Asst. Phy. to B. H.

TAUSSIG, ALBERT ERNEST

A. B., Harv. 1891; M. D., St. L. Med. Col. 1894; I., St. L. City H., 1894-1895; Prof. of Physiol., 1909; Clin. Prof. Med., 1910-12; Assoc. in Med., 1912-14; W. U. S. M.; Phy. to Jewish H.; Assoc. Prof. of Clin. Med., W. U. S. M.; Asst. Phy. to B. H.

TAUSSIG, FREDERICK JOSEPH

A. B., Harv. 1893; M. D., St. L. Med., Col. 1898; I. and Asst. Supt. Female H., St. L., 1898-1901; Instr. and Lect. in Gyn., W. U. S. M., 1906-09; Clin. Asst. 1906-08; Surg. to Out Patients 1909-11; Chief of Gyn. Out Patient Clin., 1912-14; W. U. H.; Gyn. Barnard Free Skin and Cancer H.; Consult. Ob., St. L. M. H.; W. U. S. M.; Gyn. Ob., Jewish H.; Prof. of Clin. Ob., W. U. S. M. Asst. Prof. Clin. Gyn., W. U. S. M.; Visit. Surg. St. L. City H.; Asst. Gyn. to B. H.

TERRY, ROBERT JAMES

M. D., Mo. Med. Col. 1895; A. B., W. U., 1901; Prof. Anatomy, W. U., S. M., Anthropol to St. L. C. H., and B. H.

THOMPSON, LAWRENCE DORLAND

B. S., Rutgers Col., 1917; M. D., Cornell U., 1922; Instr. in Clin. Med., W. U. S. M.; Asst. Phy. to B. H.

VAN METER, EUGENE ROBERT

M. D., W. U., 1905; Instr. in Clin. Oto-laryngol., W. U. S. M.; Asst. Oto-laryngol. to St. L. C. H.; Surg. to W. U. Disp.; Asst. Oto-laryngol. to B. H.

VAUGHAN, JOHN RUSSELL

M. D., W. U. S. M., 1910; Instr. in Clin. Gyn., W. U. S. M.; Surg. W. U. Disp.; Visit. Surg. to St. L. City H.; Asst. Ob., St. L. M. H.; Asst. Gyn., B. H.

WEISS, RICHARD SIMON

M. D., W. U., 1909; Instr. in Clin. Dermatol., W. U. S. M.; Phy. to W. U. Disp.; Visit. Phy., St. L. City H.; Asst. Dermatol. to St. L. C. H. and B. H.

WIENER, MEYER

M. D., Mo. Med. Col., 1896; I., St. L. City H., 1896-97; Mem. of Staff and Chief Eye Clin. Jewish H., Mem. of Staff of Bethesda H., St. Vincent's Asylum and St. L. M. H.; Assoc. Prof. Clin. Ophthalmol, W. U. S. M.; Asst. Ophthalmol to B. H.

WIESE, HARRY W.

B. S., W. U., 1920; M. D., W. U. S. M., 1922; Asst. in Clin. Med., W. U. S. M.; Asst. Phy. to B. H.

WILHELMI, OTTO J.

B. S., St. L. U., 1915; M. D., St. L. U., 1917; Asst. in Clin. G. U.; Surg., W. U. S. M.; Surg. W. U., Disp.; Visit. Surg. to St. L. City H.; Asst. Surg. to St. L. C. H. and B. H.

WILSON, LUCIUS ROY

A. B., Univ. of Mo. 1918; M. D., W. U. S. M., 1920; O. and G. I. B. H., 1920-21; Asst. Supt., B. H., 1921.

WOODRUFF, FREDERICK ENO

M. D., Mo. Med. Col., 1897; A. B., W. U., 1923; Asst. Prof. of Clin. Ophthalm. W. U. S. M.; Surg. to W. U. Disp.; Asst. Ophthalm. to St. L. C. H. and B. H.

Register of Former Members of the House Staff

Abbott, Frederick Book

M. D., W. U. S. M., 1914; I., W. U. Hosp., 1914-1915; Asst. Res. Surg. B. H. 1916-1917; Asst. in Clin. Surg. W. U. S. M., 1917-1919; Asst. Surg. to W. U. Disp. (Deceased)

Abel, Oliver

M. D., W. U. S. M., 1923; M I., B. H., 1923-24; Asst. Res. Phys. B. H., 1924-25.

Abrams, Samuel Frank

B. S., W. U., 1915; M. D., W. U. S. M., 1917; Asst. Res. Ob. & Gyn. B. H., 1917-1918; Asst. Gyn. & Ob. W. U. Disp., 1919-23; Asst. Gyn. Jewish Disp., 1919-21; Asst. Jewish Disp., 1927; Asst. Ob. St. Louis City H., 1921-23; Visit. Ob. St. L. M. H., 1920-27; Instr. Gyn. & Ob., St. L. U., 1925; Chief of Gyn. Clin. St. Mary's Disp., 1925; Amer. Col. Surg., 1927.

Adelsberger, Bransford L.

M. D., W. U. S. M., 1920; S. I., B. H., 1920-21; Asst. Res. Surg. B. H., 1921-22; Res. Surg., 1922-23.

Allen, Charles Curtis

M. D., W. U. S. M., 1915; Asst. Res. Ob. & Gyn. B. H., 1916-17.

Allen, Duff S.

See B. H. Staff Page.

Alsup, Frederick F.

M. D., W. U. S. M., 1915; S. I. B. H., July, 1915-Jan., 1916; I., Queen's Hosp., Honolulu, 1916-17; 1st Lieut., M. R. C., 1917-18. Grad. Army Med. Sch., 1918; Capt. Med. Corps Base Hosp., Camp Zacharg, Louisville, Ky., 1918-19; Evacuation Hosp., A. E. F., Siberia, Feb., 1919-Sept., 1919; Private Prac. (Surg.), Honolulu.

Anderson, Hans

M. D., W. U. S. M., 1919; Res. Path., B. H., 1918-19.

Andrews, Raleigh K.

B. S., Univ. of Nebr., 1915; M. D., W. U. S. M., 1916; I., St. L. C. H., 1916-19; Asst. Res. Phys., B. H., 1917-18; Asst. Res. Phys., B. H., 1917-19; Asst. in Med., W. U. S. M.; Phys. to W. U. Disp.

Armstrong, Charley Joe

M. D., Harv. U., S. I., B. H., 1922-23; Asst. Surg., B. H., 1923-24.

Arzt, Franz

M. D., W. U. S. M., 1915; Ob. I., B. H., 1925-26.

Barnett, Theodore Swift

B. S., Univ. of Mich., 1916; M. D., Univ. of Mich., Med. Sch., 1918; M. I., B. H., 1918-19; Asst. Res. Surg. (Neurol. Service), B. H., 1919-20.

Barrette, Louis C.

M. D., W. U. S. M., 1925; S. I., B. H., 1925-26.

REGISTER FORMER MEMBERS OF HOUSE STAFF

BATES, GEORGE CAMPBELL

M. D., Harvard U., 1921; S. I., B. H., 1921-22.

BATTS, J. McC.

M. D., W. U., 1923; S. I., B. H., 1923-24; I., Emergency Hosp., Wash., D. C., 1924-25; Res. Phys. and Surg., Casualty Hosp., Wash., D. C., June, 1925-Oct., 1925; Phys. and Surg. to Kennecott Copper Corp; Latouche, Alaska, Nov., 1925-June, 1928.

BECHTOLD, EDMOND

M. D., W. U. S.M., 1915; S. I., B. H., 1915-16; Asst. Res. Surg., B. H., 1916-18.

BECKE, WILLIAM G.

See Barnes Hospital Staff Page.

BECKMAN, J. WILLIAM

M. D., W. U. S. M., 1924; M. I., B. H., 1924-25.

BELCHER, GEORGE WILSON

M. D., W. U. S. M., 1919; S. I., B. H., 1919-20; Asst. Res. Surg., 1920-21.

BERG, DAVID

M. D., W. U. S. M., 1923; M. & Ob., I., B. H., 1923-24; S. I., B. H., 1924-25; Gen. Prac., Helena, Mont.

BERSCHE, BERTRAM LOUIS

M. D., W. U. S. M., 1922; S. I., B. H., 1922-23.

BIERMAN, MAX JOHN

M. D., W. U. S. M., 1923; S. I., B. H., 1923-24.

BOND, HARRY WILLIAM

B. S., Wisc. U., 1917; M. D., W. U. S. M., 1919; S. I., B. H., 1919-20; Mem. Staff Ohio Valley Gen. Hosp., Wheeling, W. Va.; Treas., Ohio Co. Med. Soc., 1921-22; Sec., Ohio Co., Med. Soc., 1922-23–1926-27; Mem. Board of Censors, Ohio Co. Med. Soc., 1925-26.

BOND, RUSSEL C.

B. S., Wisc. U., 1923; M. D., W. U. S. M., 1925; M. I., B. H., 1925-26.

BOULWARE, THOMAS M.

M. D., W. U. S. M., 1926; Ob. I., B. H., 1926-27.

BRADFORD, OSCAR F.

M. D., W. U. S. M., 1915; Res. Path., B. H., 1915-16.

BREDECK, JOSEPH FRANCIS

A. B., Christian Bros. Col., 1910; M. D., W. U. S. M., 1914; M. I., B. H., 1914-15; P. G., Work Saranec Lake, 1916; Res. Phys. and Asst. in Lab., Henry Phipp Inst., 1916-17; Res. Phys., B. H., 1917; Lieut., M. C., U. S. A., 1917-19; T. B. Controller and Asst. Hosp. Commissioner, St. L. City Hosp., 1920-25; Consultant Diseases of Chest, U. S. P. H. S., and U. S. Veterans Bureau, 1920-23; Instr. in Med., St. L. U., 1924; Asst. Phys., St. Mary's Hosp., 1924; Asst. Phys., St. L. City Hosp., 1923; P. G. Work, Hamburg, Berlin and Vienna, 1925-26.

BRIGGS, CLIFTON H.

M. D., W. U. S. M., 1920; S. I., B. H., 1920-21; Mem. Surg. Staff, Wichita Hosp., Wichita, Kans., 1923; Pres. of Staff, Wichita Hosp., Wichita, Kans.

BREWER, J. S.

B. S., Univ. of N. C., 1921; M. D., W. U. S. M., 1924; Ob. I., B. H., 1924-25.

BROMBERG, LEON

A. B., Rice Institute, 1920; M. D., Vanderbilt U., 1924; M. I., B. H., 1925-26; Res. Phys., B. H., 1926-27.

BROOKS, BARNEY

B. S., U. of Tex., 1905; M. D., J. H. M. S., 1911; Res. H. O., J. H. H., 1911-12; Asst. Instr. and Assoc. in Surg., W. U. S. M., 1912-19; Res. Surg., B. H., 1914-16; Asst. Surg., Jewish Hosp. and St. L. C. H.; Assoc. in Clin. Surg., W. U. S. M.; Asst. Surg. to B. H., and Surg., W. U. Disp.; Prof. Surg., Vanderbilt U., 1925.

BROWN, JAMES BARRETT

See Barnes Hospital Staff Page.

BROWN, T. K.

B. S., U. of Wisc., 1921; M. S., U. of Wisc., 1922; M. D., W. U. S. M., 1924; Ob. I., B. H., 1924-25; Asst. in Ob., W. U. S. M., 1925-26; Asst. Res. Surg., July, 1926-June, 1927; Res. Ob., Jan., 1927-July, 1927.

BROWN, WILBUT KENNETH

A. B., Shurtleff Coll., 1913; M. D., W. U. S. M., 1917; M. I., B. H., 1917-18.

BUNDY, HARRY EUGENE

M. D., W. U. S. M., 1916; M. I., B. H., 1916-17.

CADY, LEE D.

See Barnes Hospital Staff Page.

CAFFEY, JOHN P.

A. B., Univ. of Mich., 1916; M. D., Univ. of Mich., 1919; M. I., B. H., July, 1919; Resigned March 6, 1928.

CARR, ARCHIE D.

See Barnes Hospital Staff Page.

CHRISTENSEN, GROVER E.

B. S., U. of Utah, 1919; M. D., W. U. S. M., 1921; Ob. I., 1921-22.

COLE, HERMON H.

B. S., U. of Mich., 1915; M. D., U. of Mich., 1917; M. I., B. H., July, 1917-Oct., 1917; 1st Lieut., M. C., U. S. A., Buse Hosp., 1917; Asst. to Chief Med. Service, Oct., 1916-18; Asst. Chief Med. Service Buse Hosp., 115 A. E. F., 1916-19; Capt., M. C., District Surg., Alsace, 1919; Vice-Pres. & Assoc. Med. Director, Palmer T. B. Sanat., Springfield, Ill.; Med. Director, Springfield T. B. Clin.; Attending Specialist, T. B. Sec., U. S. Vet. Bur.; Mem. Staff, Springfield, Ill. Hosp.

COLE, WARREN H.

See Barnes Hospital Staff Page.

COLGATE, C. E.

A. B., Hanover Col., 1916; M. C., W. U. S. M., 1924; M. I., B. H., 1924-25; I., St. L. C. H., 1925-26.

COPHER, GLOVER H.

See Barnes Hospital Staff Page.

CORAY, J. B.

M. D., W. U. S. M., 1923; Asst. Res. Phys., B. H., 1924-25.

CORKHILL, HAROLD K.

M. B., Ch. B., Univ. of Edinburgh, 1922; Asst. Res. Surg., B. H., 1923-24.

REGISTER FORMER MEMBERS OF HOUSE STAFF

CORSON, HAROLD F.

M. D., W. U. S. M., 1923; M. I., B. H., 1923-24; Asst. Res. Phys., 1924-25.

CRESSWELL, GEORGE FRANCIS

A. B., Univ. of Mo., 1916; M. D., W. U. S. M., 1918; O. and G. I., B. H., July, 1918 to October, 1918; Asst. Res. O. and G., B. H., October, 1918 to Feb. 16, 1918.

CROSSEN, ROBERT J.

A. B., Oberlin Col., 1921; M. D., W. U. S. M., 1925; S. I., B. H., 1925-26; Res. Ob., B. H., July, 1926 to Jan., 1927; Asst. Res. Surg., Jan., 1927 to July, 1927.

DALLWIG, EUGENE LEON

M. D., W. U. S. M., 1916; O. & G. I., B. H., 1916-17; I., Augustana Hosp., 1917-1918; Military Service, 1918-19; Instr. in Ob. & Gyn., Marquette Med. Sch., 1919-23; Asst. Surg., Soldier's Home, 1923-26; Pres., North Side Pension Board, Milwaukee, 1928.

DARROW, FRANK I.

M. D., J. H. M. S., 1916; M. I., B. H., 1916-1917; Res. Path. B. H. 1917; Asst. Med. Chief Camp Pike H., 1918; Staff Base H. No. 120. 1919. Mem. Advis. Board; St. Johns H., Fargo, N. D., 1920; Internist to N. D. Clin., Fargo, N. D.

DAVIS, MYRON W.

M. D., W. U. S. M., 1925; Ob. I., B. H., 1925-26; Asst. Res. Surg. B. H., 1926-27.

DAY, ANTHONY B.

See Barnes Hospital Staff Page.

DEAKIN, VINCIL ROGERS

M. D., W. U. S. M., 1922; Res. Path. B. H., 1922-23; S. I., B. H., 1923-24; Asst. Res. Surg., 1924-25.

DEAN, JAMES R.

M. D., W. U. S. M., 1918; M. I., B. H. 1918; Asst. Res. Phys. B. H. Nov., 1918-May 1919; Asst. Res. St. L. City H.-May 1928; Mem. Exec. Staff (Surg.) St. Vincents H., Los Angeles; Gyn-in-Chief, Santa Rita Clin; Asst. Police Surg., Los Angeles.

DIECKMAN, WILLIAM J.

See Barnes Hospital Staff Page.

DIXON, ELLIOTT KNIGHT

M. D., W. U. S. M., 1915; S. I., B. H., 1915-16; Asst. Res. Surg. B. H., 1916; Asst. Surg. W. U. Disp; Mem. Surg. Staff St. Luke's H.; Amer. Col. of Surg.

DONAHUE, JAMES J.

B. S., W. U., 1923; M. D., W. U. S. M., 1925; M. I., B. H., July 1925-Jan. 1927; I., St. L. C. H., 1927-28.

DORRIS, RICHARD P.

A. B., U. of Mo., 1915; M. D., W. U. S. M., 1917; S. I., B. H. 1917-18; Pract. Jefferson City, Mo.

DRABKIN, CHARLES

A. B. Stanford U., 1922; M. D., W. U. S. M. 1922; Ob. I., 1924-25; Res. Ob. 1925-26; I., Jewish H. St. Louis, Mo., 1926-27; Asst. in Ob., W. U. S. M.

DRENNAN, GEORGE L.

A. B., Ill. Col., 1921; M. D., W. U. S. M., 1925; Res. Path. B. H., 1925-26.

DUDEN, CHARLES W.
M. D., W. U. S. M., 1926; M. I., July 1926-Jan. 1927.

EBERBACH, CARL WALTER
M. D., U. of Mich., 1926; M. I., B. H., 1916-17; Asst. Res. Phys. B. H., 1917; M. R. C., Base H., No. 21, 1917-19; Surg. Staff U. of Mich. H., 1919.

ELMENDORF, JOHN EDWARD
A. B., Rutgers Col. 1914; M. D., J. H. M. S., 1918; I., Med. Serv., J. H. H., 1919-19; Asst. Res. Phys., B. H., 1919-20.

EVANS, JAMES A.
M. D., Harv., 1920; M. I., B. H., 1920-21; I., St. Frances Hosp. (General Serv.) La Crosse, Wisc., 1921-22; Asst. in Clin. Lab. Hosp. Vanquirand, Paris; Amer. Field Service Fellowship in Med. with title Asst. Etranger in Clin. Hotel Dien, Paris; Asst. in Radiologist in G. I. Hosp. St. Antoine, Paris, 1922-23; Asst. Res. in Med. Peter Bent Brigham H. 1923-24; Voluntary Grad. Asst. in Roent. Peter Bent Brigham H., July 1923-Sept. 1925; Mem. St. Frances H., LaCrosse W. Visit. Phys. to Oak Forest San., Onalaska, Wisc.; Asst. Preceptor in Med. U. of Wisc.; Gen. Pract. with Evans Clin., LaCrosse, Wisc.

EVANS, JOSEPH P.
B. S., U. of Miss., 1918; M. D., W. U. S. M., 1921; Ob. I., 1921-22.

FACULTAD, JOSE M.
M. D., W. U. S. M., 1923; M. I., B. H., 1923-24.

FAULKNER, WILLIAM B., JR.
M. D., Univ. of Cal., 1923; S. I., B. H. Dec., 1924-July 1925; Asst. Res. Surg. Oct. 1925-July 1926.

FEEMSTER, LUCIEN
B. S., U. of Miss., 1922; M. D., W. U. S. M. 1924; Res. Path. B. H., July 1924-Mar. 1925.

FLEMING, SAMUEL
M. D., W. U. S. M., 1922; Ob. I., 1923-24.

FLEXNER, MORRIS
M. D., I. H., 1914; Asst. Res. Phys. B. H., July 1915-Jan. 1916; U. S. Army, 1917-19; Assoc. Clin. Prof. Med.; U. of Louisville, Priv. Pract., Louisville, Ky.

FOX, BEN
B. S., W. U., 1923; M. D., W. U. S. M., 1925; I., Ob. 1925-26.

FOWLER, JAMES G.
B. S., U. of Nebr., 1921; M. D., U. of Nebr., 1922; I. Ob. 1922-1923.

FRANCIS, BYRON F.
B. S., W. U., 1922; M. D., W. U. S. M., 1926; M. I., B. H., July 1926-Jan. 1927.

FREEMAN, MERRIN
M. I., B. H., 1918.

FREIMUTH, L. E.
B. S., St. L. U., 1922; M. D., St. L. U., 1923; I. Oto-Laryngol., 1925-26.

FUSON, L. HARRISON
M. D., W. U. S. M., 1915; M. I., B. H., 1915-16.

GALE, J. W.

A. B., U. of Mo., 1921; A. M., U. of Mo., 1922; M. D., W. U. S. M., 1924; S. I., B. H., 1924-25; Asst. Res. Surg., B. H., 1925-26; Res. Surg., B. H., 1926-27.

GARRISON, GEORGE BLAINE

A. B., Univ. of Kans., 1915; M. D., W. U. S. M., 1917; I., Colon Hosp., Canal Zone, 1917-18; Asst. Supt., B. H., 1919-20; Asst. in Surg., W. U. S. M.; Asst. Res. Surg., B. H., 1920-21.

GAY, GEORGE W.

M. D., W. U. S. M., 1926; S. I., B. H., 1926-27.

GAY, LEE PETIT

See Barnes Hospital Staff Page.

GIBBS, FLOYD F.

B. S., St. L. U., 1923; M. D., St. L. U., 1924; M. I., B. H., 1924-25.

GILBERT, ALLAN ARTHUR

M. D., W. U. S. M., 1914; M. I., B. H., 1914-15; Asst. Res. Phys., B. H., 1915-16.

GILLES, CLIFFORD LAWRENCE

A. B., Univ. of Kans., 1917; M. D., W. U. S. M., 1919; M. I., B. H., 1919-20; Asst. in Med., U. of Kans., Mem. of Staff St. Mary's Hosp. & Gen. Hosp., Exec. Secy., Kansas City Tb. Soc.; Mem. Staff, Mo. State Tb. San.

GILLILAND, CHARLES EDWARD

B. S., Univ. of Tex., 1917; M. D., Univ. of Kans., 1911; Asst. Phys., B. H., 1917-18; Res. Phys., B. H., 1918; Resigned May 1, 1919; I., St. Margarets H., Kans. City, 1911-12; Gastro-entrol, Frisco H.; Visit. Phys., St. L. City H.

GLAZER, JEROME

Asst. Res. Phy., B. H., 1926-27.

GNAGI, WILLIAM B., JR.

B. S., U. of Wis., 1922; M. D., W. U. S. M., 1924; S. I., B. H., 1924-26; Asst. Res. Surg., B. H., 1926-27; Practice, Monroe, Wis.

GOLDMAN, ALFRED

See Barnes Hospital Staff Page.

GREER, E. D.

M. D., W. U. S. M., 1926; Ob. I., 1926-27.

GRUBER, CHARLES M.

A. B., U. of Kans., 1911, and A. M., 1912; Ph. D., Harv., 1914; M. D., W. U. S. M., 1921; Teaching Fellow in Physiol., U. of Kans., 1911-12; Teaching Fellow in Physiol., Harv., 1912-14; Instr. in Physiol., U. of Pa., 1914-15; Prof. of Physol. and Pharmacology, Albany Med. Col., 1915-17, and U. of Col., 1917-20; Assoc. in Physiol., W. U. S. M., 1920-21; Asst. of Pharmacology, W. U. S. M., 1921; M. I., B. H., 1925; Phy. to W. U. Dist., 1924; Mem. of Amer. Physiol. Soc., Soc. of Pharmacology and Experimental Therapeutics; Soc. of Exper. Biology and Mem. Fellow Amer. Med. Assoc.

HAGEN, H. H.

Asst. Res. Surg., B. H., 1915-16.

HALEY, ROY ROBERT

M. D., W. U. S. M., 1916; S. I., B. H., 1916-17.

HAMM, WILLIAM C.
B. S., U. of Ga., 1921; M. D., W. U. S. M., 1925; S. I., B. H , 1925; Asst. Res. Surg., B. H., 1926-27.

HARTMEN, EMIL E.
M. D., W. U. S. M., 1925; S. I., B. H., 1925-26.

HARVEY, GEORGE G.
A. B., Univ. of Mo., 1916; A. M., Univ. of Mo., 1917; M. D., J. H. M. S., 1919; O. and G. I., B. H., 1919-20.

HEALEY, ROSCOE H.
M. D., W. U. S. M., 1918: O. and G. I., B. H., July to Dec., 1918. (Deceased)

HEIDEMAN, MELOH
See Barnes Hospital Staff Page.

HERRMANN, GEORGE R.
B. S., Univ. of Mich., 1916; M. S., Univ. of Mich., 1918; M. D., Univ. of Mich., 1918; Asst. Res. Phy., B. H., 1919-20; Res. Phy., B. H., 1920-21.

HIEBERT, ABRAHAM E.
B. S., U. of Kans.; M. D., W. U. S. M., 1925; S. I., B. H., 1925-26.

HINES, PAUL
M. D., W. U. S. M., 1926; Ob. I., 1926-27.

HITCHCOCK, CHARLES H.
S. B., Amherst, 1917; M. D., J. H., 1921; Asst. Res. Phy., B. H., 1922-24.

HODGES, FRED JENNER
B. S., Univ. of Wis., 1917; M. D., W. U. S. M., 1919; Res. Path., B. H , 1919-20.

HOFSOMMER, ARMIN C.
M. D., W. U. S. M., 1922; Ob. I., B. H., 1922-23.

HOOVER, WALTER B.
M. D., W. U. S. M., 1922; I., Oto-Laryngol., 1923-25.

HOUSE, SAMUEL JOHN
S. B., U. of Chicago, 1918; M. D., Rush, 1920; S. I., B. H., 1920-21; Asst. Res. Phy., B. H., 1921-22.

HOWARD, FRANCIS CLERMONT
See Barnes Hospital Staff Page.

JOANIDES, MINAS
M. D., W. U. S. M., 1921; S. I., B. H., 1921-22.

JONES, ANDREW B.
See Barnes Hospital Staff Page.

JOSTES, FRED
See Barnes Hospital Staff Page.

JUDY, JOHN ABRAHAM
M. D., W. U. S. M., 1915; Asst. Res. O. and G., B. H., 1916-17.

KAHN, SAMUEL
M. D., W. U. S. M., 1921; M. I., B. H., 1921-22; Asst. Res. Phy., B. H., 1922-23.

REGISTER FORMER MEMBERS OF HOUSE STAFF

KEITH, ROY
Ob. I., July, 1925-June, 1926.

KENNEDY, PATRICK H.
B. S., W. U., 1918; M. D., W. U. S. M., 1920; O. and G. I., B. H., 1920-21.

KILIAN, LEO JULIUS
M. D., W. U. S. M., 1913; Asst. Res. Phy., B. H., 1915; I., St. L. C. H., 1913-14; Med. Director, Jewish San., Anglum, Mo., 1916-17; U. S. Army, 1918-19.

KLEMME, ROLAND M.
See Barnes Hospital Staff Page.

KREBS, OTTO ST. CLAIR
See Barnes Hospital Staff Page.

KRUM, JOHN FREDERICK
M. D., W. U. S. M., 1922; S. I., B. H., 1922-23.

KUDNER, DONALD F.
M. D., U. of Mich., 1920; M. I., B. H., 1920-21.

LASERSOHN, MARTIN
B. S., W. U., 1920; M. D., W. U. S. M., 1922; M. I., B. H., 1922-23.

LEHMAN, EDWIN PARTRIDGE
See Barnes Hospital Staff Page.

LEUSCHNER, C. E.
B. S., W. U., 1920; M. D., W. U. S. M., 1924; S. I., B. H., 1924-25; Res. Surg. B. H., 1925-26.

LIGGETT, HIRAM S.
See Barnes Hosp. Staff Page.

LILHEDAHL, ELMER NATHANIEL
A. B., U. of Ia., 1915; M. D., W. U. S. M., 1918; M. I., B. H., July 1918; to Nov. 1918; Asst. Res. Phy., B. H., Nov., 1918-29.

LITTEL, GEORGE S.
B. S., Tarkio, Col., 1922; M. D., W. U. S. M., 1926; M. I., July 1926-Jan. 1928.

LOH, VEN CHOW
M. D., Harv. 1920; S. I., B. H., 1920-21.

LOHR, OLIVER W.
M. D., W. U. S. M., 1921; M. I., B. H., 1921-22; Clin. Path. to Central Lab. Saginaw, Mich.

LUEKING, HENRY FREMONT
B. S., W. U., 1916; M. D., W. U. S. M., 1918; S. I., B. H., July 1919-Mar. 1920; Capt. Med. Corp. U. S. A., Fort Totten, N. Y.

LUTEN, DREW W.
See Barnes Hospital Staff Page.

MAHONEY, FRANCIS JOSEPH
M. D., St. L. U. 1918; S. I., B. H., 1918-19.

MALONE, LULIAN Y.
A. B., Ripon Col., M. S., U. of Wis., M. D., W. U. S. M., 1921; S. I., B. H., 1921-22.

MARTIN, KIRBY

M. D., W. U. S. M., 1922; M. I., B. H., 1922-23.

MATTHAEI, CARL H.

A. B., U. of Ia., 1922; M. D., W. U. S. M., 1925; S. I., B. H., 1925-26.

METTEL, HOWARD B.

B. S., U. of Pa., M. D., W. U. S. M., 1921; M. I., B. H., 1921-22.

METZ, ROY D.

B. S., U. of W. Va., 1922; M. D., W. U. S. M., 1925; I., Sydenham Hosp. Baltimore, June-Dec. 1925; M. I., B. H., Jan. 1926-July 1927; Asst. Dept. of Anatomy U. of W. Va., 1922-23; Asst. X-Ray W. U. S. M., July 1927-Sept. 1927.

MEYER, JEROME

M. D., J. H. M. S., 1914; M. I., B. H., 1914-15.

MICHAEL, WILLIAM A.

M. D., W. U. S. M., 1921; Ob. I., 1921-22: Res. Ob. and Gyn., 1922-23.

MITCHEL, WILLIAM FRANCIS

M. D., Syracuse Univ. Col. of Med., 1916; S. I., B. H., 1916-17; Staff Evacuation Hosp. No. 13 in France and Luxenberg 1918; Mem. of Med. Staff Cruse Irving Hosp.; Syracuse, N. Y., Med. Director of Athletics Syracuse High Schools.

MITCHELL, W. LELAND

M. D., W. U. S. M., 1918; S. I., B. H., 1919-20.

MOORE, ROBERT M.

M. D., W. U. S. M., 1926; S. I., B. H., 1926-27.

MOSKOWITZ, W. J.

B. S., U. of Rochester 1918; M. D., J. H. S. M., 1922; S. I., B. H., 1922-23.

MCBEE, GILBERT L.

M. D., U. of Oregon 1926; S. I., B. H., 1926-27.

MCCAUGHAN, JOHN M.

B. S., W. U., 1924; M. D., W. U. S. M., 1926; S. I., B. H., 1926-27.

MCCULLOCH, HUGH

A. B., Univ. of Ark., 1908; M. D., J. H. M. S., 1912 ;Res. H. O., W. U. Hosp., 1912-13; Res. Phy., W. U. and B. H., 1912-15; Asst. and Instr. in Med., 1913-15; Instr. in Ped. 1915-19., W. U. S. M.; Asst. Prof. in Clin, Ped., W. U. S. M.; Asst. Ped., St. L. C. H.; Phy. to W. U. Disp.

MCNALLEY, FRANK P.

See Barnes Hospital Staff Page.

NEMOURS, PAUL R.

B. S., W. U., 1923; M. D., W. U. S. M., 1925; I., Oto-laryngol, B. H., Dec. 1926 to July, 1927.

NESBIT, WELLWOOD MACK

A. B., Univ. of Iowa 1913; M. D., Rush Med. Sch. 1917; M. I., B. H., Feb., 1918 to June, 1918; Assoc. Prof. Oto-laryngol., Wis. U. Med. Sch.; Laryngol. to Wis. Gen. Hosp., St. Mary's Hosp. and Madison Gen. Hosp., Madison, Wis.

NORTON, RICHARD C.

A. B., Yale U., 1922; M. D., Yale U., 1925; Asst. Res. Phy., B. H. 1927-28.

NORTON, WILLIAM H.

A. B., U. of Mo., 1919; A. M., 1921; M. D., W. U. S. M., 1923; S. I., B. H., 1922-23, Asst. in Surg. to A. J. Ochsner and N. M. Perry, Augustana Hosp., Chicago, 1923-24; Post. Grad. Study in Surg. European Clinics 1924-25; Prac. Surg. in St. Louis; Junior candidate for fellowship in Amer. Col of Surg. since 1926.

NOURSE, JOHN DARLINGTON

M. D., West. Reserve Univ. Sch. of Med., 1916; M. I., B. H., 1916; 1st Lieut. & Capt. M. C., U. S. A., 1917-22; Res. Ped. and Contagious Disease, Cleveland City Hosp., 1922-23; Asst. Res. & Res. Ped. Lakeside Hosp., 1923-25; Fellow in Ped., Babies & Childrens Hosp. and Western Reserve Sch. of Med., 1925-27 Visitant Babies & Childrens Hosp. & Babies Disp.; Clin. Instr. in Ped., Western Reserve Med. Sch.; Med. Dir. Child. Bureau, Cleveland, Ohio.

OCHNER, E. W. A.

A. B., U. of S. Dak., 1918; M. D., W. U. S. M., 1920; M. I., B. H., June, 1920-Jan., 1921; Asst. Res. Phy., B. H., Jan., 1921-July, 1921; Prof. Surg., Tuland Univ., NewOrleans.

O'DONNELL, HENRY ST. CLAIR

A. B., Univ. of Kans., 1915; M. D., W. U. S. M., 1917; M. I., B. H., 1917-18

O'KEEFE, CHARLES D.

See Barnes Hospital Staff Page.

OLMSTEAD, WM. H.

See Barnes Hospital Staff Page.

OLCH, I. Y.

See Barnes Hospital Staff Page.

PADDOCK, RICHARD

See Barnes Hospital Staff Page.

PADGETT, EARL C.

M. D., W. U. S. M., 1918; I. & Asst. Res. Surg., B. H., 1919-22; Clin. Asst. in Surg., B. H., 1922-24; Surg. at Hewetson Hosp., Las Vegas, 1925; Instr. in Surg. & Anatomy U. of Kans. and Pract. Surg., Kansas City, Mo.

PEACOCK, KENNETH C.

A. B., Univ. of Wis , 1915; M. D., W. U. S. M., 1917; M. I., B. H., 1917-18.

POLK, GEORGE M.

A. B., Col. of Emporia, 1913; M. D., W. U. S. M., 1918; M. I., B. H., 1919-20; I., Mercy Childrens Hosp., Kansas City, Mo., 1920-21.

POST, WINIFRED L.

A. B., U. of Mo., 1920; M. D., W. U. S. M., 1922; S. I., B. H., 1922-23; I., Oto-Laryngol., 1923-24.

PRIEST, WALTER SCOTT, JR.

A. B., Univ. of Kans., 1917; M. D., W. U. S. M., 1920; S. I., B. H., 1920-21.

PROBERT WILLIAM H.

A. B., Westminister Col., 1927; M. D., W. U. S. M., 1921; S. I., B. H., 1921-22.

RAY, LEIGHTON WEBB

B. S., Univ. of Miss., 1920; M. S., Univ. of Chicago, 1922; M. D., Harv., 1924; S. I., B. H., 1924-25.

REDINGTON, JAMES CRESCENT

M. D., St. L. U. Med. Sch., 1915; I., Jewish Hosp., St. Louis, 1915-16; Asst. Res. Phy., B. H., 1916-17; Res. Phy., Jewish Hosp., 1917; U. S. Army Evac. Hosp. No. 12, 1917-19; Prac., Galesburg, Ill.

REDFERN, THOMAS CRAIG

B. S., Clemson Col., S. C., 1912; M. D., Long Island Col. Hosp., 1916; Res. Phy., B. H., 1919-20; Supt. City Mem. Hosp., Winston Salem, N. C., 1920-24.

RIECKER, HERMAN H.

A. B., Marietta Col., 1917; M. D., J. H. U., 1923; Med. House Officer, N. Y. Hosp., 1923-25; Res. Phy., B. H., 1925-26; Asst. in W. U. S. M., 1925-26; Instr. in Int. Med., U. of Mich., 1926; Univ. Hosp., Ann Arbor, Mich.

RICE, FLOYD C.

O. and G. I., B. H., 1916-17; Asst. Res. O. and G., 1917.

ROSE, DALTON KEATS

See Barnes Hospital Staff Page.

RUDOLPH, ROYAL WILLIAM

B. S., Univ. of S. Dak., 1918; M. D., W. U. S. M., 1920; M. I., B. H., 1920-21.

SAGE, EARL CUDDINGTON

M. D., W. U. S. M., 1916; O. & G. I., B. H., 1916-17; Asst. Res. O. & G., B. H., 1917-18; Instr. in Ob., Univ. of Nebr., Sch. of Med.; Secy.-Treas. of Omaha Douglas Co. Med. Soc.; Mem. Amer. Col. of Surg.

SCHANCKE, A. N.

B. S., U. of S. Dak., 1923; M. D., W. U. S. M., 1925; M. I., B. H., Jan., 1926-July, 1927.

SCHMIDT, ERWIN RUDOLPH

A. B., U. of Wis., 1913; M. D., W. U. S. M., 1916; M. I., B. H., 1916-17; I., Augustana Hosp., Chicago, 1917; 1st Lieut., M. R. C., 1917-18; Capt. M. C., U. S. A., 1918-19; Commanding Officer U. S. A. Base Hosp. No. 11, Jan., 1919-May, 1919; I., Augustana Hosp., 1919; Chief Asst., 1920-21; Exchange Asst., Maria Hosp., Stockholm, Sweden, 1921-22; Exchange Asst. Stadtische Krankenhaus Frankfurt Am. Main, Germany, 1922-23; Asst. Attending Surg., Augustana Hosp., 1922-25; Junior Attending Surg., Augustana Hosp., 1922-25; Prof. Surg., U. of Wis., 1926; Mem. Amer. Col. of Surg.; Surg., Wis. Gen. Hosp.; Mem., Western Surg. Assoc., Ausserordentliche Mitglied Deutschen Gesellschaft für Chirurgie.

SCHOLER, HENRY CHARLES

Ph. C., U. of Kans., 1913; M. D., U. of Kans., 1928; O. I., B. H., 1921-22.

SCHRADER, EUGENE LEE

A. B., U. of Mo., 1920; M. D., W. U. S. M., 1922; M. I., B. H., 1922-23.

SCHUSSLER, HERMANN, JR.

B. S., U. of Cal., 1912; M. D., Harv. M. S., 1918; I., Rotating Serv., San Francisco Hosp.; Senior I., Med. Lane Hosp., San Francisco; Asst. Res. Phy., B. H., August 1, 1920; Resigned, Nov. 6, 1920.

SENTURIA, BEN D.

B. S., W. U., 1921; M. D., W. U. S. M., 1923; M. I., B. H., 1923-24.

SEVIN, OMAR RICHARD

M. D., W. U. S. M., 1913; S. I., W. U. Hosp. and B. H., 1913-15; Asst. in Surg., W. U. S. M., 1915-16.

REGISTER FORMER MEMBERS OF HOUSE STAFF

SHERBURNE, CLIFFORD

B. S., Denison Univ.; M. D., W. U. S. M., 1921; S. I., B. H., 1921-22; Asst. Res., Phy., B. H., 1922-23.

SMITH, DAVID ENGLISH

M. D., W. U. S. M., 1914; Res. O. and G. B. H., 1915-16.

SMITH, DUDLEY R.

M. D., W. U. S. M., 1923; O. I., B. H., 1923-24; Res. Ob., July, 1924-Mar., 1925.

STAHR, ROLAND W.

M. D., W. U. S. M., 1924; M. I., B. H., 1923-25; I., St. L. C. H., 1925-26; Asst. Res., 1926-27; Pract. of Ped., Fort Dodge, Ia.

STALEY, FOREST HENRY

A. B., Univ. of Wis., 1909; M. D., W. U. S. M., 1918; Instr. in Biology, Sterling, Ill. Township High Sch., 1909-11; Instr. in Sci., Madison, Wis. High Sch., 1911-14; Student Asst. in Anat., W. U. S. M., 1914-18; Asst. in Surg., W. U. S. M.; Acting Res. Surg., to B. H., 1919-20.

STANTON, JAMES MARK

M. D , Univ. of Mich., 1918; Res. Phy., State Psych. Hosp., Ann Arbor, Mich., 1918-19; Asst. Res. Neur., B. H., 1919-20; Junior Phy. Div. of Neuro.-Psych., Harper Hosp., Detroit, 1920-1927; Assoc. Psych., City of Detroit Receiving Hosp.; Phy. in Charge Out-Patients; Neuro. Psych. Div., City of Detroit Receiving Hosp.

STRANQUIST, E. A.

B. S., U. of Utah, 1916; M. D., W. U. S. M., 1918; S. I., B. H., 1918-19.

STRAUS, FRANCIS H.

M. D., H. M. S., 1919; S. I., B. H., 1919-20; Adm. Officer, Michael Reese Hosp., Chicago, 1920; Res. Surg., Presby. Hosp., Chicago; Fellow in Surg., Rush Med. Col., 1920; Clin. Asst., Rush Med. Col., 1923-24; Assoc. in Surg., 1924-25; Asst. Attend. Surg., Presby. Hosp., Chicago; Attend. Surg., Central Free Disp.; Instr. in Surg., Rush Med. Col.; Assoc. Consult. Surg., Home for Crippled Children.

STRODE, JOSEPH EMMERSON

M. D., W. U. S. M., 1915; S. I., B. H., 1915-16.

STUBNER, R. W.

M. D., W. U. S. M., 1923; Res. Pat., July 1, 1923-June 25, 1924.

STUDE, WILLIAM CARL

A. B., J. H. U., 1920; M. D., 1924; O. I., July 1, 1924-May 18, 1925.

TEDSTROM, MILO K.

M. D., W. U. S. M., 1924; M. I., B. H., July 1, 1924-Jan., 1926; Mem. of Staff of McRae Hosp., Corinth, Miss.

TERRILL, E. H.

M. D., W. U. S. M., 1918; H. O., Bayview City Hosp., Baltimore, 1918-20; Asst. Res. Med., B. H., 1920-21.

THOMSON, CARROLL S.

M. D., Detroit Col., 1916; Demonstrator of Ob., Univ. of Pittsburgh, 1917-18; Asst. Res. Ob., B. H., May, 1919-July, 1919; Mem. of Ob. Out-Patient Staff, Grace Hosp., 1919-20; Res. Phy. Sea View Hosp., 1921; Phy., U. S. Veterans Bur., 1922-24; Asst. Phy., Fair Oaks, San., Summit, N. J.

TORMEY, ALBERT R.

A. B., U. of Wis., 1914; M. D., W. U. S. M., 1917; M. I., B. H., 1917-18; Lieut. M. C., A. E. F., 1918-19; I., Augustana Hosp., Chicago, 1919-20; Attend. Surg., Madison Gen. & St. Mary's Hosp., Madison, Wis.; Clin. Assoc. in Surg., U. of Wis.

VERA, MIGUEL

Asst. Res. Med., 1916.

WALLER, RILEY M.

A. B., U. of Mo., 1918; M. D., W. U. S. M., 1920; S. I., B. H., 1921-22.

WALSH, L. S. NEWMAN

D. V. M., Kans. City Vet. Col., 1912; M. D., St. L. U., 1916; Asst. in Compar. Path., W. U. S. M., 1916-17; Res. Path., B. H.; Asst. Path. to St. L. C. H., 1918-19; Asst. in Path., W. U. S. M.; Asst. Path. to B. H., 1921-26.

WEBB, PAUL K.

B. S., W. U., 1921 and M. D., 1923; S. I., B. H., 1923-24; Fellow Biol. Chem., W. U. S. M., 1924-25; Gen. Prac., Chem. Bldg., St. Louis, Mo.

WEIBRAUCH, H. V.

Asst. Res. Surg., B. H., 1916.

WENNERMAN, SAMUEL FRANKLIN

M. D., W. U. S. M., 1915; M. I., B. H., 1915-16; S. I., 1916-17.

WHITE, E. H.

A. B., Clark Univ.; S. M., U. of Chicago; M. D., Harvard; Ob. I., 1922-23.

WHITE, MARCUS D.

M. D., W. U. S. M., 1920; O. and G. I., B. H., July 1, 1920-Jan. 1, 1921; Surg., U. S. Gov. in Alaska, Jan., 1921-Jan., 1922; Res. Surg., St. Francis Hosp., San Francisco Col., Mar., 1922-Jan., 1923; Prac., Ontario, Cal.

WHITNEY, CAROLINE (Deceased)

A. B., U. of Col., 1921; M. D., W. U. S. M., 1924; O. I., B. H., 1924-25; I., St. L. C. H., 1925-26.

WHITSELL, O. EARL

M. D., W. U. S. M., 1924; M. I., B. H., 1924-25; Post Grad., Work in Otolaryngol., Washington U. Disp., 1925-26; Pract. of Eye, Ear, N. & T., St. Joseph, Mo.

WILKENING, WILLIAM THEODORE

M. D., W. U. S. M., 1915; O. & G. I., B. H., 1915-17; Res. O. & G., B. H., 1917-18; Res. Surg., B. H., 1918-19.

WILSON, LUCIUS ROY

See Barnes Hospital Staff Page.

WOMACK, NATHAN A.

See Barnes Hospital Staff Page.

WOODMANSEE, C. H.

M. D., W. U. S. M., 1925; M. I., B. H., Jan., 1926-June, 1927; Gen. Pract., Providence, R. I.

WOOLSEY, ROY T.

A. B., U. of Utah, 1914; M. D., W. U. S. M., 1916; Ob. I., B. H., 1921-22.

WASHINGTON UNIVERSITY SCHOOL OF NURSING
(1926-1927)

Service Began	Superintendent of Nurses	Resigned
August 1, 1923	Claribel A. Wheeler, R. N.	
	Asst. Superintendent of Nurses	
July 1, 1924	Ruth M. Kittinger, A. B., R. N.	June 1, 1926
August 15, 1926	Dorothy Rogers, A. B., M. A., R. N	
	Theoretical Instructor	
September 1, 1923	Edith P. Brodie, B. S., R. N.	February 1, 1926
February 1, 1926	Gene Harrison, B. A., R. N.	May 31, 1927
	Practical Instructor	
February 1, 1924	Carrie A. Benham, A. B., R. N.	
	Assistant Practical Instructor	
September 1, 1925	Marie L. Luppold, R. N.	August 31, 1926
September 15, 1926	Elsie L. Gray, R. N.	
	Surgical Supervisor	
September 1, 1925	Polly Powell, R. N.	February 1, 1926
February 1, 1926	Mary K. Ball, R. N.	
	Medical Supervisor	
October 1, 1924	Gene Harrison, B. A., R. N.	February 1, 1926
February 1, 1926	Anne Brandner, B. S., R. N.	September 1, 1926
September 1, 1926	Marie L. Luppold, R. N.	
	Night Supervisor	
January 1, 1923	Florence Levy, R. N.	September 15, 1926
September 15 1926	Viola Cole, R. N.	March 1, 1927
March 10, 1927	Dorcas Drake, R. N.	

ST. LOUIS HOSPITAL SOCIAL SERVICE

Service Began	Director	Resigned
February 1, 1923	Edith M. Baker	

DEPARTMENT HEADS

	Dietitian	
November 30, 1925	Eugenia Martin	
	Apothecary	
September 1, 1925	Lillie Sanders	
	Accountant	
October 1, 1918	Leonore E. Lelley	
	Housekeeper	
April 4, 1918	Mae B. Southwick	May 15, 1926
April 25, 1926	Lula Huskey	January 8, 1927
January 1, 1927	Edith S. Lindstrom	
	Occupational Therapist	
March 1, 1926	Elizabeth S. Donovan	
	Chief Mechanic	
December 1, 1914	Louis B. Plueck	
	Store Keeper	
May 1, 1920	John W. Harper	
	Laundry Superintendent	
January 29, 1925	James F. Dougherty	

Committees

COMMITTEE FOR THE BARNES HOSPITAL

1926 and 1927

L. H. Burlingham, Chairman

David P. Barr, M. D.
Evarts A. Graham, M. D.
Leo Loeb, M. D.
McKim Marriott, M. D.
Otto H. Schwarz, M. D.
Lucius R. Wilson, M. D., Secy.

1927—Frederick J. Taussig

ADMINISTRATIVE BOARD OF THE SCHOOL OF NURSING

1926 and 1927

Philip A. Shaffer, Chairman
Louis H. Burlingham
George O. James
Robert J. Terry
Mrs. Louis LaBeaume
Estelle D. Claiborne
Otto H. Schwarz
McKim Marriott
Arthur I. Kendall
Mrs. George O. Carpenter
Claribel A. Wheeler

1927—Ruth Cobb

CONSULTING COMMITTEE FOR THE DEPARTMENT OF SOCIAL SERVICE

1926 and 1927

Bordon S. Veeder, M. D.
McKim Marriott, M. D.
Louis H. Burlingham, M. D.
Ernest Sachs, M. D.
David P. Barr, M. D.
Frederick J. Taussig, M. D.
Mrs. Joseph W. Lewis
Mrs. Daniel K. Catlin
Mrs. Robert A. Holland
Miss Louise Peel

Miss Edith Baker

Nurses Home Agreement

THIS AGREEMENT, entered into this first day of July, 1926, by and between Washington University, a corporation existing by virtue of a special act of Legislature of Missouri, hereinafter referred to as the University, Frank C. Rand, John W. Fristoe and Xenophon P. Wilfley, Trustees of Barnes Hospital, under and by virtue of the Will of Robert A. Barnes, deceased, for themselves and their successors in trust, hereinafter referred to as Barnes Hospital, The St. Louis Children's Hospital, a corporation created under the laws of the State of Missouri, hereinafter referred to as Children's Hospital, and St. Louis Maternity Hospital, a corporation created under the laws of Missouri, hereinafter referred to as Maternity Hospital.

WITNESSETH THAT:

WHEREAS, it is desirable to provide for the maintenance and management of the Nurses Home now located on property of the University adjacent to said Hospitals, and to provide for the erection, maintenance and management of a new Nurses Home to meet the increased demand for nurses of the parties hereto; and

WHEREAS, the University has been and is now conducting a School for Nursing for the purpose of educating and training nurses, for its medical department and who, during their training, serve in said Hospitals; and

WHEREAS, it is desirable to make proper provision for the conduct of said school and the maintenance and management of said Nurses Homes and the apportionment of the expenses incident thereto:

NOW, THEREFORE, in consideration of the premises and the promises and agreements herein made by each of the parties hereto, it is hereby agreed as follows:

I. The University agrees that it will forthwith proceed to erect a New Nurses' Home, with quarters for nurses and school rooms for the School of Nursing, adjoining the present structures used as Nurses' Homes on Kingshighway in the City of St. Louis, Missouri, to equip and furnish the same complete for occupancy and to maintain and operate the same in conjunction with the existing structures so used.

II. The Hospitals, parties hereto, severally covenant and agree that the nursing staff of their respective hospitals shall at all times be drawn from the nurses' staff and students of the said School of Nursing, supplemented only by such additional graduate nurses and other employees as may be necessary from time to time because of the insufficient number of nurses or students in said School of Nursing.

III. The University agrees that the Medical Staff of its School of Medicine shall teach and give the necessary instruction in the medical sciences and various branches of clinical medicine in said Hospitals, said School of Nursing or in the Medical School Building of Washing-

ton University, to the nurses and those who are in training to become nurses, free of charge to said Hospitals and without expense to said School of Nursing.

IV. Except as herein otherwise provided, and excluding any expenses for instruction by members of the medical staff of the School of Medicine, each of said Hospitals agrees to pay to the University such pro rata share of all other expenses incurred in the maintenance and operation of the School of Nursing and of the several Nurses' Homes, including a charge of 6% on the cost of all buildings, furnishings and equipment—no charge to be made for ground rental—as the number of nursing days of its student nursing staff bears to the whole number of student nursing days of all the parties hereto. Monthly payments shall be made by the parties hereto of the amounts owing by them respectively under this Section.

V. (a) The parties hereto agree that said School of Nursing and said Nurses' Home shall be conducted and controlled in the following manner: There is hereby established a Board to be known as the Administrative Board, which shall have charge of said School of Nursing and shall, subject to approval by the University, make and enforce all proper rules and regulations for the conduct and management of said School, except that the requirements in the medical sciences and the several branches of clinical medicine shall be approved by the Medical Faculty of the University's School of Medicine, and that all requirements as to instruction requisite to procure a degree from the University shall likewise be determined and prescribed by said Medical Faculty.

Said Administrative Board shall, subject to approval by the University and the Hospitals, select and remove the Director of the School of Nursing and the members of the teaching staff other than those designated by the Medical Faculty of the University for the instruction which the University hereby assumes.

Said Administrative Board shall also have charge of and conduct the Nurses' Home, either directly or by such committee or committees as it may from time to time designate.

The Administrative Board shall be constituted as follows:

The Director of the School of Nursing (ex officio);

The Dean of the School of Medicine (ex officio);

The Superintendents of the Hospitals (ex officio);

Two members of the Medical Faculty of the School of Medicine, to be appointed by the Chancellor of the University;

One member of the Faculty of Liberal Arts of the University to be appointed by the Chancellor of the University;

One or two members of the Women's Advisory Committee of the Nurses' Home, to be appointed by said Chancellor;

And such others as may from time to time seem advisable.

(b) Inasmuch as each of the parties to this contract has agreed to pay its pro rata cost of maintaining said School of Nursing and said Nurses' Home, it is mutually agreed that there shall be a Board of Control consisting of two representatives of each party to this contract, which Board shall prepare and establish the annual budget and determine the amount to be expended each year in conducting and maintaining the School of Nursing and the Nurses' Home, of which amount the several parties hereto agree to bear their pro rata shares as above stated. The voting power of the respective representatives of said Board of Control shall be in the same proportion as the amount paid by the parties hereto for operation and maintenance as above set forth for the preceding calendar year, except that no institution shall exercise more than 50% of the voting control. The expense to be provided for by the annual budget shall include the following items, but this enumeration shall not be construed to exclude other proper items of expense, viz.:

(a) Board and laundry of the Staff of the School of Nursing, and of the student nurses.

(b) Salaries of the Staff of the School of Nursing and of the employees of said School and of the Nurses' Home.

(c) Necessary supplies for the student nurses and for the Nurses' Homes.

(d) Cost of care of sick nurses and sick members of the Staff of the School of Nursing.

(e) Cost of operation including light, heat, power, water, gas, etc., of maintenance and repairs of the several Nurses' Homes and grounds appurtenant thereto; all Insurance on said buildings, equipment and furnishings, and all special assessments against said real estate for street sprinkling and street improvements, etc.

(f) Interest at six (6%) per centum per annum on the cost of said buildings, equipment and furniture, exclusive of the value of the land. As to the Homes heretofore erected, this item shall be figured at six per centum per annum from January 1, 1925.

The power hereby conferred upon said Board of Control is limited to providing for the expenses incident to operating and maintaining the School of Nursing and the Nurses' Homes only insofar as the several parties hereto are all interested therein; but said Board has no power to provide for expenditures authorized and to be paid by the University alone for developing instruction in Public Health Nursing and other projects in which the Hospitals, parties hereto, are not directly interested.

VI. The Director of said School of Nursing shall also be employed by each Hospital that is a party hereto, as its Superintendent of Nurses, and said Director shall, in the performance of duties as Superintendent of Nurses in such Hospital, be subject to the Board of Trustees or

Managers of such Hospital and shall act under the direction of the Superintendent of such Hospital; and this provision applies to any of the Staff of said School while employed in nursing duties in any of said hospitals.

In order that there may be the closest co-operation between the Staff of the School of Nursing and the head nurses and graduates nurses in the several Hospitals and Dispensary of the University, the Director of the School of Nursing, acting in the capacity of Superintendent of Nurses, shall select the head nurses, graduate nurses and other employees rendering nursing service in the several Hospitals and said Dispensary, but each party hereto shall pay directly its own head nurses, graduate nurses and employees, and each party reserves the right to employ control and discharge its own head nurses, graduate nurses and nursing employees. When in actual attendance upon a patient all such nurses shall be under the direction of the member of the Medical Staff who is in attendance upon such patient, and if such member objects to a nurse, she shall be withdrawn from attendance upon such patient.

In order to secure a uniform standard of efficiency and a wage or salary schedule in the several Hospitals for all head nurses and such graduate nurses and employees as shall be employed by the parties hereto, said Board of Control shall from time to time prepare schedule of salaries and working conditions which it thinks proper for the respective services of such nurses and employees, and such schedule shall be adhered to as far as practicable by the parties hereto.

VII. All the parties hereto agree to use their best endeavors to procure an adequate number of qualified student nurses, and such nurses shall be assigned pro rata to the several Hospitals, parties hereto, and the University's Dispensary. To insure the parties hereto an adequate number of student nurses, no other Hospital or Institution shall be permitted to train its nurses in said School of Nursing or be allowed the use of said Nurses' Homes without the consent of all the parties hereto, but it is understood and agreed that the Eye, Ear, Nose and Throat Hospital provided for by Mrs. Eliza McMillan's Will and the Barnard Skin and Cancer Hospital, when it establishes an affiliation with Washington University, may become parties hereto upon the terms herein provided for the three Hospitals, now parties hereto.

It is further agreed that the limitations above stated shall not prohibit affiliation of the School of Nursing with Hospitals other than those herein referred to for the purpose of receiving from such other hospitals student nurses for experience and training in special branches represented in the Hospitals of the parties hereto, provided that the number of such nurses shall not be such as to interfere with the instruction and training of an adequate number of regular students in said School of Nursing to meet the requirements of the parties hereto.

VIII. All tuitions paid to the University by student nurses for courses taken by them in Public Health Nursing and for courses in its College of Arts and Sciences, and for any other courses not a part of the regular nursing curriculum, shall belong exclusively to the University. But there shall be no expense to Hospitals on account of any instruction or service to students taking a graduate course in Public Health Nursing, or any other purely University course.

IX. A charge shall be made for the rooms occupied in the Nurses' Homes by any person other than the staff and students of the School of Nursing, such charges to be subject to the approval of the Board of Control and credited to the cost of operating the Nurses' Home.

X. With the new Nurses' Home herein provided for, there will be an increased number of nurses, and this will require certain changes in the dining room facilities in Barnes Hospital. It is agreed that when these changes are made said Hospital will be allowed interest at the rate of 6% per annum on the cost thereof and that said 6% shall be included in and added to the cost of operating and maintaining said Nurses' Home, and shall be borne by the parties hereto, the same as any other expense incident thereto.

XI. This agreement supersedes and annuls all parts of any prior agreements relative to the training and control of nurses between the University and any of the other parties hereto so far as the provision of such prior agreements are inconsistent with the terms hereof, and in particular the contract of June 26, 1914, between the University and the Trustees of Barnes Hospital, relating to Nurses' Homes, is hereby annulled and abrogated in toto.

XII. The provisions of this agreement shall continue and remain in force as follows:

As to the Trustees of Barnes Hospital, for the term expiring October 28, 1961, but subject to the right of said Hospital or the University to terminate same on or after October 28, 1941, by giving three years' notice in writing prior to such termination.

As to St. Louis Children's Hospital, for the term expiring July 8, 1962, but subject to the right of said Hospital or the University to terminate same after July 8, 1942, on three years' notice in writing.

As to St. Louis Maternity Hospital, for the term expiring April 23, 1973, but subject to the right of said Hospital or University to terminate same after April 23, 1953, on three years' notice in writing.

IN TESTIMONY WHEREOF, The corporate parties hereto have caused these present to be signed by their respective chief officers and to be attested by their respective Secretaries, and said Trustees

of Barnes Hospital have subscribed their names, the day and year first above written.

WASHINGTON UNIVERSITY

By Robert McK. Jones
Acting President

Attest:
J. H. Zumbalen
Secretary

F. C. Rand
J. W. Fristoe
Xenophon P. Wilfley
Trustees of Barnes Hospital

ST. LOUIS CHILDREN'S HOPITAL

(signed) By Mary McK. Markham (Mrs. G. D. Markham)
President

Attest:
Emma U. LaBeaume
Secretary

ST. LOUIS MATERNITY HOSPITAL

By Fay H. Carton (Mrs. Benoist Carton)
President

Attest:
Jessie May Lesser
Secretary

FORM OF BEQUEST

I give and bequeath unto the Trustees of Barnes Hospital (now located at Kingshighway and Euclid Avenue, St. Louis, Missouri) and to their successors in trust, the sum of .....Dollars as a permanent endowment fund,* the income of which shall be used by said Trustees for the support and maintenance of said Hospital.

(see note below)

NOTE.—If real estate is given, use the words, "I give, devise and bequeath," etc. If it is desired to make a gift for a special purpose, describe the purpose fully in place of the words, "as a permanent endowment, etc."

*See pp. 15 and 16.